

contain recommendations for remedial work when appropriate, and will be transmitted through the Division Engineer for review and to HQDA (DAEN-CWE) WASH DC 20314 for review and approval. For structures incurring no damage a simple statement to this effect will be all that is required in the report, unless seismic instrumentation at the project is activated. (See paragraph (h)(4) of this section.)

(g) *Training.* The dam safety training program covered by paragraph 6 of ER 1130-2-419 should include post-earthquake inspections and the types of damage operations personnel should look for.

(h) *Responsibilities.* (1) The Engineering Divisions of the District offices will formulate the inspection program, conduct the post-earthquake inspections, process and analyze the data of instrumental and other observations, evaluate the resulting condition of the structures, and prepare the inspection reports. The Engineering division is also responsible for planning special instrumentation felt necessary in selected structures under this program. Engineering Division is responsible for providing the training discussed in paragraph (g) of this section.

(2) The Construction Divisions of the District offices will be responsible for the installation of the earthquake instrumentation devices and for data collection if an earthquake occurs during the construction period.

(3) The Operations Division of the District offices will be responsible for the immediate assessment of earthquake damage and notifying the Chief, Engineering Division as discussed in paragraphs (f)(1) and (2). The Operations Division will also be responsible for earthquake data collection after the construction period in accordance with the instrumental observation programs, and will assist and participate in the post-earthquake inspections.

(4) The U.S. Geological Survey has the responsibility for servicing and collecting all data from strong motion instrumentation at Corps of Engineers dam projects following an earthquake occurrence. However, the U.S. Army Waterways Experiment Station (WES) is assigned the responsibility for analyzing and interpreting these earth-

quake data. Whenever a recordable earthquake record is obtained from seismic instrumentation at a Corps project, the Division will send a report of all pertinent instrumentation data to the Waterways Experiment Station, ATTN: WESGH, P.O. Box 631, Vicksburg, Mississippi 39180. The report on each project should include a complete description of the locations and types of instruments and a copy of the instrumental records from each of the strong motion machines activated. (Exempt from requirements control under paragraph 7-2v, AR 335-15).

(5) The Engineering Divisions of the Division offices will select structures for special instrumentation for earthquake effects, and will review and monitor the data collection, processing, evaluating, and inspecting activities. They will also be specifically responsible for promptly informing HQDA (DAEN-CWE) WASH DC 20314, when evaluation of the condition of the structure or analyses of the instrumentation data indicate the stability of a structure is questionable. (Exempt for requirements control under paragraph 7-2o, AR 335-15.)

(6) Division Engineers are responsible for issuing any supplementary regulations necessary to adapt the policies and instructions herein to the specific conditions within their Division.

(i) *Funding.* Funding for the evaluation and inspection program will be under the Appropriation 96X3123, Operations and Maintenance, General. Funds required for the inspections, including Travel and Per Diem costs incurred by personnel of the Division office or the Office, Chief of Engineers, will be from allocations made to the various projects for the fiscal year in which the inspection occurs.

[44 FR 43469, July 25, 1979. Redesignated at 60 FR 19851, Apr. 21, 1995]

§ 222.5 Water control management (ER 1110-2-240).

(a) *Purpose.* This regulation prescribes policies and procedures to be followed by the U.S. Army Corps of Engineers in carrying out water control management activities, including establishment of water control plans for Corps and non-Corps projects, as required by Federal laws and directives.

(b) *Applicability.* This regulation is applicable to all field operating activities having civil works responsibilities.

(c) *References.* Appendix A lists U.S. Army Corps of Engineers publications and sections of Federal statutes and regulations that are referenced herein.

(d) *Authorities—(1) U.S. Army Corps of Engineers projects.* Authorities for allocation of storage and regulation of projects owned and operated by the Corps of Engineers are contained in legislative authorization acts and referenced project documents. These public laws and project documents usually contain provisions for development of water control plans, and appropriate revisions thereto, under the discretionary authority of the Chief of Engineers. Some modifications in project operation are permitted under congressional enactments subsequent to original project authorization. Questions that require interpretations of authorizations affecting regulation of specific reservoirs will be referred to CDR USACE (DAEN-CWE-HW), WASH DC 20314, with appropriate background information and analysis, for resolution.

(2) *Non-Corps projects.* The Corps of Engineers is responsible for prescribing flood control and navigation regulations for certain reservoir projects constructed or operated by other Federal, non-Federal or private agencies. There are several classes of such projects: Those authorized by special acts of Congress; those for which licenses issued by the Federal Energy Regulatory Commission (formerly Federal Power Commission) provide that operation shall be in accordance with instructions of the Secretary of the Army; those covered by agreements between the operating agency and the Corps of Engineers; and those that fall under the terms of general legislative and administrative provisions. These authorities, of illustrative examples, are described briefly in Appendix B.

(e) *Terminology: Water control plans and reservoir regulation schedules.* (1) Water control plans include coordinated regulation schedules for project/system regulation and such additional provisions as may be required to collect, analyze and disseminate basic data, prepare detailed operating instructions, assure project safety and

carry out regulation of projects in an appropriate manner.

(2) The term “reservoir regulation schedule” refers to a compilation of operating criteria, guidelines, rule curves and specifications that govern basically the storage and release functions of a reservoir. In general, schedules indicate limiting rates of reservoir releases required during various seasons of the year to meet all functional objectives of the particular project, acting separately or in combination with other projects in a system. Schedules are usually expressed in the form of graphs and tabulations, supplemented by concise specifications.

(f) *General policies.* (1) Water control plans will be developed for reservoirs, locks and dams, reregulation and major control structures and inter-related systems to conform with objectives and specific provisions of authorizing legislation and applicable Corps of Engineers reports. They will include any applicable authorities established after project construction. The water control plans will be prepared giving appropriate consideration to all applicable Congressional Acts relating to operation of Federal facilities, i.e., Fish and Wildlife Coordination Act (Pub. L. 85-624), Federal Water Project Recreation Act-Uniform Policies (Pub. L. 89-72), National Environmental Policy Act of 1969 (Pub. L. 91-190), and Clean Water Act of 1977 (Pub. L. 95-217). Thorough analysis and testing studies will be made as necessary to establish the optimum water control plans possible within prevailing constraints.

(2) Necessary actions will be taken to keep approved water control plans up-to-date. For this purpose, plans will be subject to continuing and progressive study by personnel in field offices of the Corps of Engineers. These personnel will be professionally qualified in technical areas involved and familiar with comprehensive project objectives and other factors affecting water control. Organizational requirements for water control management are further discussed in ER 1110-2-1400.

(3) Water control plans developed for specific projects and reservoir systems will be clearly documented in appropriate water control manuals. These

manuals will be prepared to meet initial requirements when storage in the reservoir begins. They will be revised as necessary to conform with changing requirements resulting from developments in the project area and downstream, improvements in technology, new legislation and other relevant factors, provided such revisions comply with existing Federal regulations and established Corps of Engineers policy.

(4) Development and execution of water control plans will include appropriate consideration for efficient water management in conformance with the emphasis on water conservation as a national priority. The objectives of efficient water control management are to produce beneficial water savings and improvements in the availability and quality of water resulting from project regulation/operation. Balanced resource use through improved regulation should be developed to conserve as much water as possible and maximize all project functions consistent with project/system management. Continuous examination should be made of regulation schedules, possible need for storage reallocation (within existing authority and constraints) and to identify needed changes in normal regulation. Emphasis should be placed on evaluating conditions that could require deviation from normal release schedules as part of drought contingency plans (ER 1110-2-1941).

(5) Adequate provisions for collection, analysis and dissemination of basic data, the formulation of specific project regulation directives, and the performance of project regulation will be established at field level.

(6) Appropriate provisions will be made for monitoring project operations, formulating advisories to higher authorities, and disseminating information to others concerned. These actions are required to facilitate proper regulation of systems and to keep the public fully informed regarding all pertinent water control matters.

(7) In development and execution of water control plans, appropriate attention will be given to project safety in accordance with ER 1130-2-417 and ER 1130-2-419 so as to insure that all water impounding structures are operated for the safety of users of the facilities and

the general public. Care will be exercised in the development of reservoir regulation schedules to assure that controlled releases minimize project impacts and do not jeopardize the safety of persons engaged in activities downstream of the facility. Water control plans will include provisions for issuing adequate warnings or otherwise alerting all affected interests to possible hazards from project regulation activities.

(8) In carrying out water control activities, Corps of Engineers personnel must recognize and observe the legal responsibility of the National Weather Service (NWS), National Oceanic and Atmospheric Administration (NOAA), for issuing weather forecasts and flood warnings, including river discharges and stages. River forecasts prepared by the Corps of Engineers in the execution of its responsibilities should not be released to the general public, unless the NWS is willing to make the release or agrees to such dissemination. However, release to interested parties of factual information on current storms or river conditions and properly quoted NWS forecasts is permissible. District offices are encouraged to provide assistance to communities and individuals regarding the impact of forecasted floods. Typical advice would be to provide approximate water surface elevations at locations upstream and downstream of the NWS forecasting stream gages. Announcement of anticipated changes in reservoir release rates as far in advance as possible to the general public is the responsibility of Corps of Engineers water control managers for projects under their jurisdiction.

(9) Water control plans will be developed in concert with all basin interests which are or could be impacted by or have an influence on project regulation. Close coordination will be maintained with all appropriate international, Federal, State, regional and local agencies in the development and execution of water control plans. Effective public information programs will be developed and maintained so as to inform and educate the public regarding Corps of Engineers water control management activities.

(10) Fiscal year budget requests for water control management activities

will be prepared and submitted to the Office of the Chief of Engineers in accordance with requirements established in Engineer Circular on Annual Budget Requests for Civil Works Activities. The total annual costs of all activities and facilities that support the water control functions, (excluding physical operation of projects, but including flood control and navigation regulation of projects subject to 33 CFR 208.11) are to be reported. Information on the Water Control Data Systems and associated Communications Category of the Plant Replacement and Improvement Program will be submitted with the annual budget. Reporting will be in accordance with the annual Engineer Circular on Civil Works Operations and Maintenance, General Program.

(g) *Responsibilities: US Army Corps of Engineers projects*—(1) *Preparation of water control plans and manuals.* Normally, district commanders are primarily responsible for background studies and for developing plans and manuals required for reservoirs, locks and dams, reregulation and major control structures and interrelated systems in their respective district areas. Policies and general guidelines are prescribed by OCE engineer regulations while specific requirements to implement OCE guidance are established by the division commanders concerned. Master Water Control Manuals for river basins that include more than one district are usually prepared by or under direct supervision of division representatives. Division commanders are responsible for providing such management and technical assistance as may be required to assure that plans and manuals are prepared on a timely and adequate basis to meet water control requirements in the division area, and for pertinent coordination among districts, divisions, and other appropriate entities.

(2) *Public involvement and information*—(i) *Public meeting and public involvement.* The Corps of Engineers will sponsor public involvement activities, as appropriate, to appraise the general public of the water control plan. In developing or modifying water control manuals, the following criteria is applicable.

(A) Conditions that require public involvement and public meetings include: Development of a new water control manual that includes a water control plan; or revision or update of a water control manual that changes the water control plan.

(B) Revisions to water control manuals that are administratively or informational in nature and that do not change the water control plan do not require public meetings.

(C) For those conditions described in paragraph (g)(2)(i)(A) of this section, the Corps will provide information to the public concerning proposed water control management decisions at least 30 days in advance of a public meeting. In so doing, a separate document(s) should be prepared that explains the recommended water control plan or change, and provides technical information explaining the basis for the recommendation. It should include a description of its impacts (both monetary and nonmonetary) for various purposes, and the comparisons with alternative plans or changes and their effects. The plan or manual will be prepared only after the public involvement process associated with its development or change is complete.

(D) For those conditions described in paragraph (g)(2)(i)(A) of this section, the responsible division office will send each proposed water control manual to the Army Corps of Engineers Headquarters, Attn: CECW-EH-W for review and comments prior to approval by the responsible division office.

(ii) *Information availability.* The water control manual will be made available for examination by the general public upon request at the appropriate office of the Corps of Engineers. Public notice shall be given in the event of occurring or anticipated significant changes in reservoir storage or flow releases. The method of conveying this information shall be commensurate with the urgency of the situation and the lead time available.

(3) *Authority for approval of plans and manuals.* Division commanders are delegated authority for approval of water control plans and manuals, and associated activities.

(4) *OCE role in water control activities.* OCE will establish policies and guidelines applicable to all field offices and for such actions as are necessary to assure a reasonable degree of consistency in basic policies and practices in all Division areas. Assistance will be provided to field offices during emergencies and upon special request.

(5) *Methods improvement and staff training.* Division and district commanders are responsible for conducting appropriate programs for improving technical methods applicable to water control activities in their respective areas. Suitable training programs should be maintained to assure a satisfactory performance capability in water control activities. Appropriate coordination of such programs with similar activities in other areas will be accomplished to avoid duplication of effort, and to foster desirable exchange of ideas and developments. Initiative in re-evaluating methods and guidelines previously established in official documents referred to in paragraph (e) of this section is encouraged where needs are evident. However, proposals for major deviations from basic concepts, policies and general practices reflected in official publications will be submitted to CDR USACE (DAEN-CWE) WASH DC 20314 for concurrence or comment before being adopted for substantial application in actual project regulation at field level.

(h) *Directives and technical instruction manuals.* (1) Directives issued through OCE Engineer Regulations will be used to foster consistency in policies and basic practices. They will be supplemented as needed by other forms of communication.

(2) Engineering Manuals (EM) and Engineer Technical Letters (ETL) are issued by OCE to serve as general guidelines and technical aids in developing water control plans and manuals for individual projects or systems.

(3) EM 1110-2-3600 discusses principles and concepts involved in developing water control plans. Instructions relating to preparation of "Water Control Manuals for specific projects" are included. EM 1110-2-3600 should be used as a general guide to water control activities. The instructions are sufficiently flexible to permit adaptation to

specific regions. Supplemental information regarding technical methods is provided in numerous documents distributed to field offices as "hydrologic references."

(4) Special assistance in technical studies is available from the Hydrologic Engineering Center, Corps of Engineers, 609 Second Street, Davis, California 95616 and DAEN-CWE-HW.

(i) *Water control manuals for US Army Corps of Engineers projects.* (1) As used herein, the term "water control manual" refers to manuals that relate primarily to the functional regulation of an individual project or system of projects. Although such manuals normally include background information concerning physical features of projects, they do not prescribe rules or methods for physical maintenance or care of facilities, which are covered in other documents. (References 15 and 23, Appendix A.)

(2) Water control manuals prepared in substantially the detail and format specified in instructions referred to in paragraph 8 are required for all reservoirs under the supervision of the Corps of Engineers, regardless of the purpose or size of the project. Water Control manuals are also required for lock and dam, reregulation and major control structure projects that are physically regulated by the Corps of Engineers. Where there are several projects in a drainage basin with interrelated purposes, a "Master Manual" shall be prepared. The effects of non-Corps projects will be considered in appropriate detail, including an indication of provisions for interagency coordination.

(3) "Preliminary water control manuals," for projects regulated by the Corps of Engineers should contain regulation schedules in sufficient detail to establish the basic plan of initial project regulation.

(4) As a general rule, preliminary manuals should be superseded by more detailed interim or "final" manuals within approximately one year after the project is placed in operation.

(5) Each water control manual will contain a section on special regulations to be conducted during emergency situations, including droughts.

Preplanned operations and coordination are essential to effective relief or assistance.

(6) One copy of all water control manuals and subsequent revisions shall be forwarded to DAEN-CWE-HW for file purposes as soon as practicable after completion, preferably within 30 days from date of approval at the division level.

(j) *Policies and requirements for preparing regulations for non-Corps projects.*

(1) Division and district commanders will develop water control plans as required by section 7 of the 1944 Flood Control Act, the Federal Power Act and section 9 of Pub. L. 436-83 for all projects located within their areas, in conformance with ER 1110-2-241, 33 CFR part 208. That regulation prescribes the policy and general procedures for regulating reservoir projects capable of regulation for flood control or navigation, except projects owned and operated by the Corps of Engineers; the International Boundary and Water Commission, United States and Mexico; those under the jurisdiction of the International Joint Commission, United States and Canada, and the Columbia River Treaty. ER 1110-2-241, 33 CFR part 208 permits the promulgation of specific regulations for a project in compliance with the authorizing acts, when agreement on acceptable regulations cannot be reached between the Corps Engineers and the owners. Appendix B provides a summary of the Corps of Engineers responsibilities for prescribing regulations for non-Corps reservoir projects.

(2) Water control plans will be developed and processed as soon as possible for applicable projects already completed and being operated by other entities, including projects built by the Corps of Engineers and turned over to others for operation.

(3) In so far as practicable, water control plans for non-Corps projects should be developed in cooperation with owning/operating agencies involved during project planning stages. Thus, tentative agreements on contents, including pertinent regulation schedules and diagrams, can be accomplished prior to completion of the project.

(4) The magnitude and nature of storage allocations for flood control or

navigation purposes in non-Corps projects are governed basically by conditions of project authorizations or other legislative provisions and may include any or all of the following types of storage assignments:

(i) Year-round allocations: Storage remains the same all year.

(ii) Seasonal allocations: Storage varies on a fixed seasonal basis.

(iii) Variable allocations of flood control from year to year, depending on hydrologic parameters, such as snow cover.

(5) Water control plans should be developed to attain maximum flood control or navigation benefits, consistent with other project requirements, from the storage space provided for these purposes. When reservoir storage capacity of the category referred to in paragraph (j)(4)(iii) is utilized for flood control or navigation, jointly with other objectives, the hydrologic parameters and related rules developed under provisions of ER 1110-2-241, 33 CFR part 208 should conform as equitably as possible with the multiple-purpose objectives established in project authorizations and other pertinent legislation.

(6) Storage allocations made for flood control or navigation purposes in non-Corps projects are not subject to modifications by the Corps of Engineers as a prerequisite for prescribing 33 CFR 208.11 regulations. However, regulations developed for use of such storage should be predicated on a mutual understanding between representatives of the Corps and the operating agency concerning the conditions of the allocations in order to assure reasonable achievement of basic objectives intended. In the event field representatives of the Corps of Engineers, and the operating agency are unable to reach necessary agreements after all reasonable possibilities have been explored, appropriate background explanations and recommendations should be submitted to DAEN-CWE-HW for consideration.

(7) The Chief of Engineers is responsible for prescribing regulations for use of flood control or navigation storage and/or project operation under the provisions of the referenced legislative acts. Accordingly, any regulations established should designate the division/

district commander who is responsible to the Chief of Engineers as the representative to issue any special instructions required under the regulation. However, to the extent practicable, project regulations should be written to permit operation of the project by the owner without interpretations of the regulations by the designated representative of the Commander during operating periods.

(8) Responsibility for compliance with 33 CFR 208.11 regulations rests with the operating agency. The division or district commander of the area in which the project is located will be kept informed regarding project operations to verify reasonable conformance with the regulations. The Chief of Engineers or his designated representative may authorize or direct deviation from the established water control plan when conditions warrant such deviation. In the event unapproved deviations from the prescribed regulations seem evident, the division or district commander concerned will bring the matter to the attention of the operating agency by appropriate means.

If corrective actions are not taken promptly, the operating agency should be notified of the apparent deviation in writing as a matter of record. Should an impasse arise, in that the project owner or the designated operating entity persists in noncompliance with regulations prescribed by the Corps of Engineers, the Office of Chief Counsel should be advised through normal channels and requested to take necessary measures to assure compliance.

(9) Regulations should contain information regarding the required exchange of basic data between the representative of the operating agency and the U.S. Army Corps of Engineers, that are pertinent to regulation and coordination of interrelated projects in the region.

(10) All 33 CFR 208.11 regulations shall contain provisions authorizing the operating agency to temporarily deviate from the regulations in the event that it is necessary for emergency reasons to protect the safety of the dam, to avoid health hazards, and to alleviate other critical situations.

(k) *Developing and processing regulations for non-Corps projects.* Guidelines

concerning technical studies and development of regulations are contained in ER 1110-2-241, 33 CFR part 208 and EM 1110-2-3600. Appendix C of this regulation summarizes steps normally followed in developing and processing regulations for non-Corps projects.

(l) *Water control during project construction stage.* Water control plans discussed in preceding paragraphs are intended primarily for application after the dam, spillway and outlet structures; major relocations; land acquisitions, administrative arrangements and other project requirements have reached stages that permit relatively normal project regulation. With respect to non-Corps projects, regulations normally become applicable when water control agreements have been signed by the designated signatories, subject to special provisions in specific cases. In some instances, implementation of regulations has been delayed by legal provisions, contract limitations, or other considerations. These delays can result in loss of potential project benefits and possible hazards. Accordingly, it is essential that appropriate water control and contingency plans be established for use from the date any storage may accumulate behind a partially completed dam until the project is formally accepted for normal operations. Division commanders shall make certain that construction-stage regulation plans are established and maintained in a timely and adequate manner for projects under the supervision of the Corps of Engineers. In addition, the problems referred to should be discussed with authorities who are responsible for non-Corps projects, with the objective of assuring that such projects operate as safely and effectively as possible during the critical construction stage and any period that may elapse before regular operating arrangements have been established. These special regulation plans should include consideration for protection of construction operations; safety of downstream interests that might be jeopardized by failure of partially completed embankments; requirements for minimizing adverse effects on partially completed relocations or incomplete land acquisition; and the need for obtaining benefits from project storage

that can be safely achieved during the construction and early operation period.

(m) *Advisories to OCE regarding water control activities*—(1) *General*. Division commanders will keep the Chief of Engineers currently informed of any unusual problems or activities associated with water control that impact on his responsibilities.

(2) *Annual division water control management report (RCS DAEN-CWE-16(R1))*. Division commanders will submit an annual report on water control management activities within their division. The annual report will be submitted to (DAEN-CWE-HW) by 1 February each year and cover significant activities of the previous water year and a description of activities to be accomplished for the current year. Funding information for water control activities will be provided in the letter of transmittal for in-house use only. The primary objective of this summary is to keep the Chief of Engineers informed regarding overall water management activities Corps-wide, thus providing a basis to carry out OCE responsibilities set forth in paragraph (g)(4) of this section.

(3) *Status of water control manuals*. A brief discussion shall be prepared annually by each division commander, as a separate section of the annual report on water control management activities discussed in paragraph (m)(2) of this section listing all projects currently in operation in his area, or expected to begin operation within one-year, with a designation of the status of water control manuals. The report should also list projects for which the Corps of Engineers is responsible for prescribing regulations, as defined in ER 1110-2-241, 33 CFR part 208.

(4) *Monthly water control charts (RCS DAEN-CWE-6 (R1))*. A monthly record of reservoirs/lakes operated by the Corps of Engineers and other agencies, in accordance with 33 CFR 208.11, will be promptly prepared and maintained by district/division commanders in a form readily available for transmittal to the Chief of Engineers, or others, upon request. Record data may be prepared in either graphical form as shown in EM 1110-2-3600, or tabular

form as shown in the sample tabulation in Appendix D.

(5) *Annual division water quality reports (RCS DAEN-CWE-15)*. By Executive Order 12088, the President ordered the head of each Executive Agency to be responsible for ensuring that all necessary actions are taken for prevention, control, and abatement of environmental pollution with respect to Federal facilities and activities under control of the agency. General guidance is provided in references 24 and 25, Appendix A, for carrying out this agency's responsibility. Annual division water quality reports are required by reference 24, Appendix A. The report is submitted in two parts. The first part addresses the division Water quality management plan while the second part presents specific project information. A major objective of this report is to summarize information pertinent to water quality aspects of overall water management responsibilities. The annual division water quality report may be submitted along with the annual report on water control management activities discussed in paragraph 13b above.

(6) *Master plans for water control data systems (RCS DAEN-CWE-21)*. (i) A water control data system is all of the equipment within a division which is used to acquire, process, display and distribute information for real-time project regulation and associated inter-agency coordination. A subsystem is all equipment as defined previously within a district. A network is all equipment as defined previously which is used to regulate a single project or a group of projects which must be regulated interdependently.

(ii) Master plans for water control data systems and significant revisions thereto will be prepared by division water control managers and submitted to DAEN-CWE-HW by 1 February each year for review and approval of engineering aspects. Engineering approval does not constitute funding approval. After engineering approval is obtained, equipment in the master plan is eligible for consideration in the funding processes described in ER 1125-2-301

and engineering circulars on the annual budget request for civil works activities. Master plans will be maintained current and will:

(A) Outline the system performance requirements, including those resulting from any expected expansions of Corps missions.

(B) Describe the extent to which existing facilities fulfill performance requirements.

(C) Describe alternative approaches which will upgrade the system to meet the requirements not fulfilled by existing facilities, or are more cost effective than the existing system.

(D) Justify and recommend a system considering timeliness, reliability, economics and other factors deemed important.

(E) Delineate system scope, implementation schedules, proposed annual capital expenditures by district, total costs, and sources of funding.

(iii) Modified master plans should be submitted to DAEN-CWE-HW by 1 February, whenever revisions are required, to include equipment not previously approved or changes in scope or approach. Submittal by the February date will allow adequate time for OCE review and approval prior to annual budget submittals.

(iv) Division commanders are delegated authority to approve detailed plans for subsystems and networks of approved master plans. Plans approved by the division commander should meet the following conditions:

(A) The plan conforms to an approved master plan.

(B) The equipment is capable of functioning independently.

(C) An evaluation of alternatives has been completed considering reliability, cost and other important factors.

(D) The plan is economically justified, except in special cases where legal requirements dictate performance standards which cannot be economically justified.

(v) Copies of plans approved by the division commander shall be forwarded to appropriate elements in OCE in support of funding requests and to obtain approval of Automatic Data Processing Equipment (ADPE), when applicable.

(vi) Water control data systems may be funded from Plant Revolving Fund;

O&M General; Flood Control, MR&T, and Construction, General. Funding for water control equipment that serves two or more projects will be from Plant Revolving Fund in accordance with ER 1125-2-301. District and division water control managers will coordinate plant revolving fund requests with their respective Plant Replacement and Improvement Program (PRIP) representatives following guidance provided in ER 1125-2-301. Budget funding requests under the proper appropriation title should be submitted only if the equipment is identified in an approved master plan.

(vii) Justification for the Automatic Data Processing Equipment (ADPE) aspects of water control data systems must conform to AR 18-1, Appendix I or J as required. The "Funding for ADPE" paragraph in Appendixes I and J must cite the source of funds and reference relevant information in the approved master plan and detailed plan.

(viii) Division water control managers will submit annual letter summaries of the status of their respective water control systems and five-year plan for improvements. These summaries will be submitted to DAEN-CWE by 1 June for coordination with DAEN-CWO, CWB and DSZ-A, prior to the annual budget request. Summaries should not be used to obtain approval of significant changes in master plans. Sources of funding for all items for each district and for the division should be delineated so that total system expenditures and funding requests are identified. Changes in the master plan submitted 1 February should be documented in this letter summary if the changes were approved.

(7) *Summary of runoff potentials in current season (RCS DAEN-CWO-2).* (i) The Chief of Engineers and staff require information to respond to inquiries from members of Congress and others regarding runoff potentials. Therefore, the division commander will submit a snowmelt runoff and flood potential letter report covering the snow accumulation and runoff period, beginning generally in February and continuing monthly, until the potential no longer exist. Dispatch of supplemental reports will be determined by the urgencies of situations as they occur. The reports

will be forwarded as soon as hydrologic data are available, but not later than the 10th of the month. For further information on reporting refer to ER 500-1-1, 33 CFR part 203.

(ii) During major drought situations or low-flow conditions, narrative summaries of the situation should be furnished to alert the Chief of Engineers regarding the possibility of serious runoff deficiencies that are likely to call for actions associated with Corps of Engineers reservoirs.

(iii) The reports referred to in paragraphs (m)(7) (i) and (ii) of this section will include general summaries regarding the status of reservoir storage, existing and forecasted at the time of the reports.

(8) *Reports on project operations during flood emergencies.* Information on project regulations to be included in reports submitted to the Chief of Engineers during flood emergencies in accordance with ER 500-1-1 include rate of inflow and outflow in CFS, reservoir levels, predicted maximum level and anticipated date, and percent of flood control storage utilized to date. Maximum use should be made of computerized communication facilities in reporting project status to DAEN-CWO-E/CWE-HW in accordance with the requirements of ER 500-1-1, 33 CFR part 203.

(9) *Post-flood summaries of project regulation.* Project regulation effects including evaluation of the stage reductions at key stations and estimates of damages prevented by projects will be included in the post flood reports required by ER 500-1-1, 33 CFR part 203.

(n) *Water Control Management Boards.*

(1) The Columbia River Treaty Permanent Engineering Board was formed in accordance with the Columbia River Treaty with Canada. This board, composed of U.S. and Canadian members, oversees the implementation of the Treaty as carried out by the U.S. and Canadian Entities.

(2) The Mississippi River Water Control Management Board was established by ER 15-2-13. It consists of the Division Commanders from LMVD, MRD, NCD, ORD, and SWD with the Director of Civil Works serving as chairman. The purposes of the Board are:

(i) To provide oversight and guidance during the development of basin-wide management plans for Mississippi River Basin projects for which the US Army Corps of Engineers has operation/regulation responsibilities.

(ii) To serve as a forum for resolution of water control problems among US Army Corps of Engineers Divisions within the Mississippi River Basin when agreement is otherwise unobtainable.

(o) *List of projects.* Projects owned and operated by the Corps of Engineers subject to this regulation are listed with pertinent data in Appendix E. This list will be updated periodically to include Corps projects completed in the future. Federal legislation, Federal regulations and local agreements have given the Corps of Engineers wide responsibilities for operating projects which it does not own. Non-Corps projects subject to this regulation are included in Appendix A of ER 1110-2-241.

APPENDIX A TO § 222.5—REFERENCES

1. The Federal Power Act, Pub. L. 436-83, approved 10 June 1920, as amended (41 Stat. 1063; 16 U.S.C. 791(a))
2. Section 3 of the Flood Control Act approved 22 June 1936, as amended (49 Stat. 1571; 33 U.S.C. 701(c))
3. Section 9(b) of Reclamation Project Act of 1939, approved 4 August 1939 (53 Stat. 1187; 43 U.S.C. 485)
4. Section 7 of the Flood Control Act approved 22 December 1944 (58 Stat. 890; 33 U.S.C. 709)
5. Section 5 of Small Reclamation Projects Act of 6 August 1956, as amended (70 Stat. 1046; 43 U.S.C. 422(e))
6. Section 9 of Pub. L. 436-83d Congress (68 Stat. 303)
7. The Fish and Wildlife Coordination Act of 1958, Pub. L. 85-624
8. The Federal Water Project Recreation Act Uniform Policies, Pub. L. 89-72
9. The National Environmental Policy Act of 1969, Pub. L. 91-190
10. The Clean Water Act of 1977, Pub. L. 95-217
11. Executive Order 12088, Federal Compliance with Pollution Control Standards, 13 October 1978
12. 33 CFR 208.10, Local flood protection works; maintenance and operation of structures and facilities (9 FR 9999; 9 FR 10203)
13. 33 CFR 208.11, Regulations for use of Storage Allocated for Flood Control or Navigation and/or Project Operation at Reservoirs

subject to Prescription of Rules and Regulations by the Secretary of the Army in the Interest of Flood Control and Navigation (43 FR 47184)

- 14. AR 18–1
- 15. ER 11–2–101
- 16. ER 15–2–13
- 17. ER 500–1–1, 33 CFR part 203
- 18. ER 1110–2–241, 33 CFR part 208
- 19. ER 1110–2–1400
- 20. ER 1110–2–1402
- 21. ER 1110–2–1941
- 22. ER 1125–2–301
- 23. ER 1130–2–303
- 24. ER 1130–2–334
- 25. ER 1130–2–415
- 26. ER 1130–2–417
- 27. ER 1130–2–419
- 28. EM 1110–2–3600

APPENDIX B TO § 222.5—SUMMARY OF
CORPS OF ENGINEERS RESPONSIBILITIES FOR PRESCRIBING REGULATIONS
FOR NON-CORPS RESERVOIR
PROJECTS

Summary

1. (a) “Regulations for Use of Storage Allocated for Flood Control or Navigation and/or Project Operation at Reservoirs subject to Prescription of Rules and Regulations by the Secretary of the Army in the Interest of Flood Control and Navigation” (33 CFR 208.11) prescribe the responsibilities and general procedures for regulating reservoir projects capable of regulation for flood control or navigation and the use of storage allocated for such purposes and provided on the basis of flood control and navigation, except projects owned and operated by the Corps of Engineers; the International Boundary and Water Commission, United States and Mexico; and those under the jurisdiction of the International Joint Commission, United States and Canada, and the Columbia River Treaty.

(b) Pertinent information on projects for which regulations are prescribed under Section 7 of the 1944 Flood Control Act, (Pub. L. 78–58 Stat. 890 (33 U.S.C. 709)) the Federal Power Act (41 Stat. 1063 (16 U.S.C. 791(A))) and Section 9 of Pub. L. 436–83d Congress (68 Stat. 303) is published in the FEDERAL REGISTER in accordance with 33 CFR 208.11.

Publication in the FEDERAL REGISTER establishes the fact and the date of a project’s regulation plan promulgation.

2. Section 7 of Act of Congress approved 22 December 1944 (58 Stat. 890; 33 U.S.C. 709), reads as follows:

“Hereafter, it shall be the duty of the Secretary of War to prescribe regulations for the use of storage allocated for flood control or navigation at all reservoirs constructed wholly or in part with Federal funds provided on the basis of such purposes, and the

operation of any such project shall be in accordance with such regulations: *Provided*, That this section shall not apply to the Tennessee Valley Authority, except that in case of danger from floods on the Lower Ohio and Mississippi Rivers the Tennessee Valley Authority is directed to regulate the release of water from the Tennessee River into the Ohio River in accordance with such instructions as may be issued by the War Department.”

3. Section 9(b) of the Reclamation Project Act of 1939, approved 4 August 1939 (53 Stat. 1189, 43 U.S.C. 485), provides that the Secretary of the Interior may allocate to flood control or navigation as part of the cost of new projects or supplemental works; and that in connection therewith he shall consult with the Chief of Engineers and may perform any necessary investigations under a cooperative agreement with the Secretary of the Army. These projects are subject to 33 CFR 208.11 regulations.

4. Several dams have been constructed by State agencies under provisions of legislative acts wherein the Secretary of the Army is directed to prescribe rules and regulations for project operation in the interest of flood control and navigation. These projects are subject to 33 CFR 208.11 regulations.

5. There are few dams constructed under Emergency Conservation work authority or similar programs, where the Corps of Engineers has performed major repairs or rehabilitation, that are operated and maintained by local agencies which are subject to 33 CFR 208.11 regulations.

6. The Federal Power Act, approved 10 June 1920, as amended (41 Stat. 1063, 16 U.S.C. 791 (A)), established the Federal Power Commission, now Federal Energy Regulatory Commission (FERC), with authority to issue licenses for constructing, operating, and maintaining dams or other project works for the development of navigation, for utilization of water power and for other beneficial public uses in any streams over which Congress has jurisdiction. The Chief of Engineers is called upon for advice and assistance as needed in formulating reservoir regulation requirements somewhat as follows:

a. In response to requests from the FERC, opinions and technical appraisals are furnished by the Corps of Engineers for consideration prior to issuance of licenses by the FERC. Such assistance may be limited to general presentations, or may include relatively detailed proposals for water control plans, depending upon the nature and scope of projects under consideration. The information furnished is subject to such consideration and use as the Chairman, FERC, deems appropriate. This may result in inclusion of simple provisions in licenses without elaboration, or relatively detailed requirements for reservoir regulation schedules and plans.

b. Some special acts of Congress provide for construction of dams and reservoirs by non-Federal agencies or private firms under licenses issued by the FERC, subject to stipulation that the operation and maintenance of the dams shall be subject to reasonable rules and regulations of the Secretary of the Army in the interest of flood control and navigation. Ordinarily no Federal funds are involved, thus Section 7 of the 1944 Flood Control Act does not apply. However, if issuance of regulations by the Secretary of the Army is required by the authority under which flood control or navigation provisions are included as functions of the specific project or otherwise specified in the FERC license, regulation plans will be prescribed in accordance with 33 CFR 208.11 regulations.

7. Projects constructed by the Corps of Engineers for local flood protection purposes are subject to conditions of local cooperation as provided in Section 3 of the Flood Control Act approved 22 June 1936, as amended. One of those conditions is that a responsible local agency will maintain and operate all works after completion in accordance with regulations prescribed by the Secretary of the Army. Most such projects consist mainly of levees and flood walls with appurtenant drainage structures. Regulations for operation and maintenance of these projects has been prescribed by the Secretary of the Army in 33 CFR 208.10. When a reservoir is included in such a project, it may be appropriate to apply 33 CFR 208.10 in establishing regulations for operation, without requiring their publication in the FEDERAL REGISTER. For example, if the reservoir controls a small drainage area, has an uncontrolled flood control outlet with automatic operation or contains less than 12,500 acre-feet of flood control or navigation storage, 33 CFR 208.10 may be suitable. However, 33 CFR 208.11 regulations normally would be applicable in prescribing flood control regulations for the individual reservoir, if the project has a gated flood control outlet by which the local agency can regulate floods.

8. Regulation plans for projects owned by the Corps of Engineers are not prescribed in accordance with 33 CFR 208.11. However, regulation plans for projects constructed by the Corps of Engineers and turned over to other agencies or local interests for operation may be prescribed in accordance with 33 CFR 208.11.

9. The Small Reclamation Projects Act of 6 August 1956 provides that the Secretary of the Interior may make loans or grants to local agencies for the construction of reclamation projects. Section 5 of the Act provides in part that the contract covering any such grant shall set forth that operation be in accordance with regulations prescribed by the head of the Federal department or agency primarily concerned. Normally, 33 CFR 208.11 is not applicable to these projects.

APPENDIX C TO § 222.5—PROCEDURES FOR DEVELOPING AND PROCESSING REGULATIONS FOR NON-CORPS PROJECTS IN CONFORMANCE WITH 33 CFR 208.11

1. *Sequence of actions.* a. Discussions leading to a clarification of conditions governing allocations of storage capacity to flood control or navigation purposes and project regulation are initiated by District/Division Engineers through contacts with owners and/or operating agencies concerned at regional level.

b. Background information on the project and conditions requiring flood control or navigation services, and other relevant factors, are assembled by the District Engineer and incorporated in a "Preliminary Information Report". The Preliminary Information Report will be submitted to the Division Engineer for review and approval. Normally, the agency having jurisdiction over the particular project is expected to furnish information on project features, the basis for storage allocations and any other available data pertinent to the studies. The Corps of Engineers supplements this information as required.

c. Studies required to develop reservoir regulation schedules and plans usually will be conducted by Corps of Engineers personnel at District level, except where the project regulation affects flows in more than one district, in which case the studies will be conducted by or under supervision of Division personnel. Assistance as may be available from the project operating agency or others concerned will be solicited.

d. When necessary agreements are reached at district level, and regulations developed in accordance with 33 CFR 208.11 and EM 1110-2-3600, they will be submitted to the Division Commander for review and approval, with information copies for DAEN-CWE-HW. Usually the regulations include diagrams of operating parameters.

e. For projects owned by the Bureau of Reclamation, the respective Regional Directors are designated as duly authorized representatives of the Commissioner of Reclamation. By letter of 20 October 1976, the Commissioner delegated responsibilities to the Regional Directors as follows: "Regarding the designated authorization of representatives of the Commissioner of Reclamation in matters relating to the development and processing of Section 7 flood control regulations, we are designating each Regional Director as our duly authorized representative to sign all letters of understanding, water control agreements, water control diagrams, water control release schedules and other documents which may become part of the prescribed regulations.

The Regional Director also will be responsible for obtaining the signature of the designated operating agency on these documents where such is required. Regarding internal coordination within the Bureau of Reclamation, the Regional Directors will obtain the review and approval of this office and at appropriate offices with our Engineering and Research Center, Denver, Colorado, prior to signing water control documents."

f. In accordance with the delegation cited in paragraph e, 33 CFR 208.11 regulations pertaining to Bureau of Reclamation projects will be processed as follows:

(1) After regulation documents submitted by District Commanders are reviewed and approved by the Division Commander they are transmitted to the respective Regional Director of the Bureau of Reclamation for concurrence of comment, with a request that tracings of regulation diagrams be signed and returned to the Division Commander.

(2) If any questions arise at this stage appropriate actions are taken to resolve differences. Otherwise, the duplicate tracings of the regulation diagram are signed by the Division Commander and transmitted to the office of the project owner for filing.

(3) After full agreement has been reached in steps (1) and (2), the text of proposed regulations is prepared in final form. Copies of any diagrams involved are included for information only.

(4) A letter announcing completion of action on processing the regulations, with pertinent project data as specified in paragraph 208.11(d)(11) of 33 CFR 208.11, and one copy of the signed tracings of diagrams are forwarded to HQDA (DAEN-CWE-HW) WASH DC 20314 for promulgation and filing. The office of the Chief of Engineers will forward the pertinent project data to the Liaison Officer with the Federal Register, requesting publication in the FEDERAL REGISTER.

g. Regulations developed in accordance with 33 CFR 208.11 and applicable to projects that are not under supervision of the Bureau of Reclamation are processed in substantially the manner described above. All coordination required between the Corps of Engineers and the operating agency will be accomplished at field level.

h. Upon completion of actions listed above, Division Commanders are responsible for informing the operating agencies at field level that regulations have been promulgated.

2. *Signature blocks:* Some 33 CFR 208.11 regulations contain diagrams of parameter curves that cannot be published in the FEDERAL REGISTER, but are made a part thereof by appropriate reference. Each diagram bears a title block with spaces for the signature of authenticating officials of the Corps of Engineers and the owner/operating agency of the project involved.

3. *Designation of Corps of Engineers Representatives.* Division Commanders are designated representatives of the Chief of Engineers in matters relating to development and processing of 33 CFR 208.11 regulations for eventual promulgation through publication of selected data specified in paragraph (d)(11) §208.11. Division Commanders are designated as the Corps of Engineers signee on all letters of understanding, water control agreements and other documents which may become part of prescribed regulations for projects located in their respective geographic areas, and which are subject to the provisions of 33 CFR 208.11.

APPENDIX D TO §222.5—SAMPLE TABULATION

BARDWELL LAKE, MONTHLY LAKE REPORT, MAY 1975

Day	Elevations 0800: 2,400 feet-MSL	Storage 2400 A-F	Evap DSF	Pump DSF	Release DSF	Inflow adj. DSF	Rain, inch
1	421.30 421.31	55979	28	2.0	0	84	0.00
2	421.32 421.37	56196	5	2.0	0	117	.00
3	421.43 421.44	56449	23	1.9	0	152	.14
4	421.45 421.47	56558	1	1.8	0	58	.00
5	421.49 421.34	56088	1	2.0	324	50	.00
6	421.20 421.01	54902	14	1.9	632	50	.00
7	420.88 420.89	54473	4	2.0	269	59	.09
8	420.89 420.91	54544	5	2.3	0	44	.00
9	420.90 420.89	54473	11	1.5	0	38	.00
10	420.90 420.90	54509	28	3.0	0	27	.00
11	420.91 421.35	56124	26	1.8	0	824	.00
12	421.54 421.65	57213	31	2.1	0	582	1.61
13	421.70 421.75	57578	29	2.2	0	216	.00
14	421.78 421.76	57614	34	1.9	249	303	.03
15	421.69 421.52	56739	22	1.9	643	225	.57
16	421.39 421.28	55871	39	2.1	535	138	.00
17	421.19 421.09	55188	10	2.2	393	119	.00
18	421.03 421.05	55045	46	2.0	143	60	.00
19	421.04 421.07	55116	17	2.3	0	55	.00

BARDWELL LAKE, MONTHLY LAKE REPORT, MAY 1975—Continued

Day	Elevations 0800: 2,400 feet-MSL		Storage 2400 A-F	Evap DSF	Pump DSF	Release DSF	Inflow adj. DSF	Rain, inch
20	421.06	421.30	55943	21	2.1	0	440	.21
21	421.39	421.47	56558	20	2.1	0	332	.97
22	421.50	421.39	56268	42	2.1	247	145	.00
23	421.37	424.91	69726	31	2.0	328	7146	.22
24	425.61	426.15	74825	22	2.0	0	2595	2.38
25	426.15	426.55	76523	18	2.3	0	876	.11
26	426.72	426.80	77598	42	2.1	0	586	.00
27	426.95	427.00	78465	23	2.0	0	462	.00
28	427.14	427.15	79116	31	2.1	0	361	.19
29	427.31	427.70	81528	61	1.9	0	1279	.20
30	427.94	428.05	83082	11	2.0	0	796	1.02
31	428.20	428.22	83837	7	2.1	0	389	.00
Monthly total:								
(DSF)				700	64	3763	18626	7.74
(A-F)			27966	1389	126	7464	36945

APPENDIX E TO § 222.5—LIST OF PROJECTS

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.				Area in acres		Auth legis ³
					Upper		Lower		Upper	Lower	
Lower Mississippi Valley Division											
Alligator—Catfish FG	MS Issaquena	Little Sunflower	F	0.0	0.0	0.0	0	0	0	FCA Jun 36.	
Arkabutla Lk	MS Desoto	Coldwater	F	525.0	238.3	209.3	33,400	5,100	0	FCA Jun 36.	
Ascalmore—Tippo FG & CS	MS Tallahatchie	Ascalmore	F	0.0	136.0	118.0	0	0	0	FCA Jun 36.	
Bienvenue FG	LA St Bernard	Bayou Bienvenue	F	0.0	2.0	2.0	0	0	0	PL 298–89	
Big Lk Ditch #81 CS	AR Mississippi	Ditch 81 Extension.	C	0.0	0.0	230.0	0	0	0	FCA Oct 65.	
Big Lk Div CS	AR Mississippi	Little R	C	0.0	0.0	230.0	0	0	0	FCA Oct 65.	
Big Lk North End CS	AR Mississippi	Little R	C	0.0	0.0	230.0	0	0	0	FCA Oct 65.	
Big Lk South end CS	AR Mississippi	Ditch 28	C	0.0	0.0	230.0	0	0	0	FCA Oct 65.	
Birds Point—New Madrid Div Floodway.	MO New Madrid	Mississippi	F	0.0	330.5	328.5	131,000	71,000	0	FCA May 28.	
Bodcau Lk	LA Bossier	Bayou Bodcau	F	35.3	199.5	157.0	21,000	110	0	PL 74–839.	
Bonnet Carre Div Spillway	LA St Charles	Mississippi R	F	0.0	24.0	20.0	0	0	0	FCA May 28.	
Bowman Lock	LA Vermilion	GWV	I	0.0	1.2	1.2	0	0	0	PL 79–14.	
Caddo Lk	LA Caddo	Cypress Bayou	N	128.6	182.7	168.5	59,000	26,800	0	FCA Oct 65.	
Cairo 10th & 20th St PS	IL Pulaski	Ohio	F	0.0	310.5	299.0	0	0	0	PL 90–483.	
Calcasieu SW Barrier & Lock	LA Calcasieu	Calcasieu R	I	0.0	1.2	1.2	0	0	0	RHA Oct 62.	
Calton L&D	AR Union	Ouachita	N	0.0	77.0	77.0	12,200	12,200	0	PL 79–525.	
Calumet FG East & West	LA St Mary	Wax Lake Outlet Bayou Teeche.	FN	0.0	3.0	3.0	0	0	0	RHA 1950.	
Cannon Re-reg	MO Ralls	Salt R	PCA	5.8	528.0	521.0	1,020	460	0	HD 507.	
Carlyle Lk	IL Clinton	Kaskaskia R	F	699.0	462.5	445.0	50,440	24,580	0	SD 44.	
Catahoula Lk CS	LA LaSalle	Catahoula Div	CR	233.0	445.0	429.5	0	7,100	0	RHA 1960.	
Catfish Point CS	LA Cameron	Menttau R	FN	118.0	34.0	27.0	25,000	94	0	FCA Aug 41, RHA Jul 64.	
Charenton FG	LA St Mary	Grand Lk	FN	0.0	1.2	1.2	0	0	0	RHA Jul 46, FCA May 28.	
Cocodrie FG FG	LA Concorida	Bayou Cocodrie	F	0.0	46.0	13.0	0	0	0	FCA Aug 41.	
Collins Cr	MS Warren	Collins Cr	F	0.0	84.0	67.0	0	0	0	FCA 1941.	
Columbia L&D	LA Caldwell	Ouachita	N	0.0	52.0	52.0	7,070	7,070	0	RHA 1950.	
Connerly CS	AR Chicot	Connerly Bayou	FCR	0.0	116.0	106.0	0	0	0	FCA Aug 68.	
Courtableau Drainage CS	LA St Landry	Bayou Courtableau	F	0.0	18.0	16.0	0	0	0	FCA May 28, PL 391–70.	
Darbonne CS	LA St Landry	Bayou Darbonne	FI	0.0	18.0	16.0	0	0	0	FCA May 28, PL 391–70.	
DeGray Lk	AR Desoto	Caddo	FNPMRA	881.9	423.0	345.0	23,800	6,400	0	RHA 1950, WSA 1958.	
DeGray Rereg. St	AR Clark	Caddo	NMRA	3.6	221.0	209.0	430	90	0	RHA 1950, WSA 1958.	
Ditch Bayou Dam	AR Chicot	Ditch Bayou	FCR	0.0	106.0	93.0	0	0	0	FCA Aug 68.	
Drainage Dist #17 PS	AR Mississippi	Ditch 71	F	3.0	236.0	228.0	4,100	0	0	FCA Aug 68, PL 90–483.	
Drinkwater PS	MO Mississippi	Drinkwater Sewer	F	20.6	315.0	307.0	4,000	700	0	FCA May 50, PL 516.	
Dupre FG	LA St Bernard	Bayou Dupre	F	0.0	2.0	2.0	0	0	0	PL 298–89.	
East St Louis PS	IL St. Clair	IDD	F	0.0	0.0	0.0	0	0	0	FC Act 36.	
Empire FG Hurr Prot & Lock	LA Plaquemines	Mississippi R	F	0.0	5.0	5.0	0	0	0	PL 874–87.	
End Lk	MS Yalobusha	Yacona	F	660.0	268.0	230.0	28,000	6,100	0	FCA Jun 36.	

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Felsenthal L&D	AR Union	Ouachita	N	32.5	70.0	65.0	46,500	17,500	RHA 1950.
Finley Street PS	TN Dyer	Forked Deer	F	0.5	269.0	257.0	94	22	FCA 1948, PL 85-500.
Freshwater Lock	LA Vermilion	Freshwater Bayou	I	0.0	0.0	0.0	0	0	PL 86-645.
Graham Burke PS	AR Phillips	White	F	2,805.0	174.8	140.0	149,000	2,500	FCA May 28, PL 85-500.
Grenada Lk	MS Grenada	Yalobusha Skuna	F	1,357.4	231.0	193.0	64,600	9,800	FCA Jun 36.
Huxtable PS	AR Lee	St Francis	F	2,863.0	207.2	165.0	18,500	1,400	FCA May 50.
Jonesville L&D	LA Catahoula	Black	N	34.0	34.0	7,120	1,300	7,120	RHA 1950.
Kaskaskia L&D	IL Randolph	Kaskaskia R	N	1.1	368.0	363.0	1,300	1,200	SD 44.
L&D 1	LA Catahoula	Red R	N	0.0	40.0	40.0	0	0	PL 90-483.
L&D 2	LA Rapides	Red R	N	0.0	71.2	64.0	0	0	PL 90-483.
L&D 3	LA Rapides	Red R	N	0.0	95.0	91.5	0	0	PL 90-483.
L&D 4	LA Natchitoches	Red R	N	0.0	120.0	119.6	0	0	PL 90-483.
L&D 5	LA Red R	Red R	N	0.0	145.0	140.2	0	0	PL 90-483.
L&D 24	MO Pike	Mississippi R	N	29.7	449.0	445.0	13,000	12,000	R&H Act, Jul 3/30.
L&D 25	MO Lincoln	Mississippi R	N	49.7	434.0	429.7	18,000	16,600	R&H Act, Aug 30/35.
L&D 26	IL Madison	Mississippi R	N	107.1	419.0	414.0	30,000	27,700	R&H Act, Jul 3/30.
Larose to Golden Meadow Hurr Prot FG.	LA LaFourche	Bayou LaFourche	F	0.0	3.0	3.0	0	0	R&H Act, Jul 3/30.
Little Sun flower CS	MS Issaquena	Lit. Sunflower	F	0.0	85.0	60.0	0	0	FCA 1941.
Lk #9 Culvert & PS	KY Fulton	Mississippi	F	6.5	286.0	282.0	0	0	FCA Oct 65.
Lk Chicot PS	AR Chicot	Macon Lk	FCR	0.0	118.2	90.0	0	0	FCA Aug 68.
Lk Greeson	AR Pike	Little Missouri	P	0.0	563.0	436.9	0	0	FCA 1941.
Lk Ouachita	AR Garland	Ouachita	FP	407.9	563.0	504.0	9,800	2,500	
Long Branch DS	LA Catahoula	Catahoula Div	P	0.0	592.0	480.0	0	0	FCA Dec 44.
Mark Twain Lk	MO Rails	Salt R	F	894.0	32.5	32.5	0	0	FCA May 50.
Marked Tree Siphon	AR Poinsett	St. Francis	PMCAR	457.0	606.0	567.2	18,600	18,600	HD 507.
Morganza Div CS	LA Point Coupee	Morganza Floodway	F	0.0	229.0	198.3	0	0	FCA Jun 30.
Muddy Bayou CS	MS Warren	Muddy Bayou	F	0.0	59.5	49.0	0	0	FCA May 28.
Old River Div CS Low Sill Overbank & Aux.	LA W. Feliciana	Old R	FC	30.0	76.9	70.0	4,350	2,860	FCA Oct 65.
Old River Lock	LA W Feliciana	Old R	F	0.0	70.0	5.0	0	0	PL 83-780.
Port Allen Lock	LA Port Allen	GWV	N	0.0	65.4	10.0	0	0	FCA Sep 54, PL 780-83.
Prairie Dupont East & West PS	IL St. Clair	IDD	N	0.0	46.1	2.6	0	0	RHA Jul 46.
Rapides-Boeuf Div Canal CS	LA Rapides	Bayou Rapides	F	0.0	0.0	0.0	0	0	FC Act 62.
Rend Lk	IL Franklin	Big Muddy R	F	0.0	66.0	62.2	0	0	FCA Aug 41, GD 359-77.
Sardis Lk	MS Panola	Little Sunflower	M/A	109.0	405.0	410.0	24,800	18,900	HD 541.
Schooner Bayou CS & Lock	LA Vermilion	Schooner Bayou	F	160.0	405.0	391.3	18,900	5,400	
Shelbyville Lk	IL Shelby	Kaskaskia R	I	1,589.9	281.4	236.0	58,500	10,700	FCA Jun 36.
Sorrells Lock	LA Iberville	GWV	F	0.0	1.2	1.2	0	0	FCA Aug 41.
St Francis Lk CS	AR Poinsett	Oak Donnick Floodway	NM/CAR	474.0	626.5	599.7	25,300	11,100	HD 232.
Steele Bayou CS	MS Issaquena	Steele Bayou	N	180.0	599.7	573.0	11,100	3,000	
Tchula Lk Lower FG	MS Humphreys	Tchula Lk	F	0.0	29.7	3.5	0	0	FCA May 28.
			C	0.0	0.0	210.0	0	2,240	FCA Oct 65.
			F	0.0	68.5	60.0	0	0	FCA 1941.
			F	0.0	110.0	84.0	0	0	FCA Jun 36.

APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
Tchula Lk Upper FG	MS Humphreys	Tchula Lk	F	0.0	108.0	92.0	0	0	FCA Jun 36.
Teche-Vermilion PS & CS	LA St Mary	Achafalaya R	MI	0.1	18.0	16.0	0	0	PL 89–789, FCA May 28.
Texas-Cocodrie PS	LA Cocordia	Bayou Corcodile	F	0.0	37.0	23.0	0	0	FCA Oct 65.
Treasure Island PS	MO Dunklin	Little R	F	23.4	252.0	235.0	7,800	180	FCA Jul 46.
Wallace Lk	LA Caddo	Cypress Bayou	F	96.1	158.0	142.0	9,300	2,300	RHA Mar 45, PL 75–761.
Wappapello Lk	MO Wayne	St Francis R	F	613.2	394.7	354.7	23,200	5,200	HD 159.
Wasp Lk	MS Humphreys	Wasp Lk-Bear Cr	F	0.0	111.6	88.5	0	0	FCA Jun 36.
West Hickman PS	KY Fulton	Mississippi	F	0.0	302.0	296.0	9	4	FCA 1948.
Wood R PS	IL Madison	IDD	F	0.0	0.0	0.0	0	0	FC Act 38.
Yazoo City PS	MS Yazoo	Yazoo	F	0.0	96.0	69.0	0	0	FCA Jun 36.
Missouri River Division									
Bear Creek Dam & Res	CO Jefferson	Bear Cr	F	28.8	5,635.5	5,558.0	718	109	PL 90–483.
Big Bend Dam & Lk Sharpe	SD Lyman Buffalo Hughes.	Missouri R	FCR F	1.9 61.0	5,558.0 1,423.0	5,528.0 1,422.0	109 61,000	17 60,000	SD 87–90. PL 78–534.
Blue Springs Dam & Lk	MO Jackson	Little Blue R	FNPIMCAR	117.0	1,422.0	1,420.0	60,000	57,000	SD 247–78.
Blue Stem Lake & Dam 4	NE Lancaster	Olive Br. Salt Creek	FRC	15.8 10.8	820.0 802.0	802.0 760.0	982 722	722	PL 90–483. HD 189–90.
Bowman-Haley Dam & Res	ND Bowman	No Fk Grand River	FCR	7.2 3.0	1,322.5 1,307.4	1,307.4 1,277.0	660 315	315	PL 85–500.
Branched Oak Lk & Dam 18	NE Lancaster	Oak Creek trib. Salt Creek.	FCR F	72.7 15.5 71.6	1,307.4 2,754.8 1,311.0	1,277.0 2,740.0 1,284.0	315 5,131 3,640	1,732 565 1,780	HD 396–84. PL 87–874. HD 574–87. PL 85–500.
Bull Hook Dam	MT Hill	Bull Hook Cr Scott Cou- lee.	FCR F	26.0 6.5	1,284.0 2,593.0	1,250.0 2,540.0	1,780 283	0	HD 396–84. PL 78–534.
Cedar Canyon Dam	SD Pennington	Deadman's Gulch	F	0.1	3,545.0	3,526.0	11	2	PL 80–858.
Chaffield Dam & Res	CO Douglas	S Platte	F	204.7	5,500.0	5,432.0	4,742	1,412	PL 81–516.
Cherry Cr Dam & Res	CO Arapahoe	Cherry Cr	FQ F	26.7 80.0	5,432.0 5,598.0	5,385.0 5,550.0	1,412 2,637	12 852	HD 669–80. PL 77–228.
Clinton Dam & Lk	KS Douglas	Wakarusa R	FR	14.0	5,550.0	5,504.0	852	0	HD 426–76, PL 78–534.
Cold Brook Dam & Res	SD Fall River	Cold Brook	FMCAR	267.8 129.2	903.4 875.5	875.5 820.0	12,891 7,006	7,006	PL 87–874. SD 122–87.
Conestoga Lake & Dam 12	NE Lancaster	Holmes Cr Trib to Salt Cr.	FR F	6.7 0.5 8.0	3,651.4 3,585.0 1,252.0	3,585.0 3,548.0 1,232.9	198 36 620	36 230	PL 77–228. HD 655–76. PL 85–500.
Cottonwood Springs Dam & Res	SD Fall River	Cottonwood Springs Cr	FCR FR	2.6 7.7 0.2	1,232.9 3,936.0 3,875.0	1,197.0 3,875.0 3,868.0	230 214 44	1 44 30	HD 396–84. PL 77–228. HD 655–76.

Fort Peck Dam & Res	MT Valley, Mc Cone Garfield.	Missouri R	F	977.0	2,250.0	2,246.0	249,000	240,000	PL 73-409.
Fort Randall Dam, Lk Francis Case ...	SD Gregory Charles	Missouri R	FNPMCAR	13,649.0	2,246.0	2,160.0	240,000	92,000	PL 75-529, HD 238-73. PL 78-534, SD 247-78.
Garrison Dam, Lk Sakakawea	ND Mercer McLean	Missouri R	FNPMCAR	985.0	1,375.0	1,365.0	102,000	95,000	PL 78-534.
Gavins Point Dam, Lewis & Clark Lk	NE Knox	Missouri R	F	3,021.0	1,365.0	1,320.0	95,000	41,000	SD 247-78.
Glenn Cunningham Lk, Dam 11	NE Douglas	Missouri R	FNPMCAR	1,494.0	1,850.0	1,850.0	382,000	365,000	PL 78-534.
Harlan County Lk	NE Harlan	Missouri R	F	17,440.0	1,850.0	1,775.0	365,000	129,000	SD 247-78.
Harry S Truman Dam & Res	MO Benton	Osage R	FNPMCAR	61.0	1,210.0	1,208.0	32,000	29,000	PL 78-534.
		Little Papillion Cr	F	95.0	1,208.0	1,204.5	29,000	25,000	SD 247-78.
		Republican R	FRCA	14.0	1,142.0	1,121.0	922	382	PL 90-483.
		Osage R	F	3.9	1,121.0	1,085.0	922	0	HD 349-90.
		Big Bull Cr	FI	498.0	1,973.5	1,946.0	23,064	13,249	PL 77-228.
		Antelope Cr Trib to Salt Cr.	F	342.6	1,946.0	1,875.0	13,249	0	HD 892-76, PL 78-534.
		Smoky Hill R	FCR	4,005.9	739.6	706.0	209,300	55,600	PL 83-780.
		Westerly Cr	F	1,203.4	706.0	635.0	55,600	0	PL 83-780, PL 87-874.
		Little East Fk Chariton R	FCR	83.6	931.0	917.0	7,410	4,580	HD 578-87.
		Little Blue R	FNPMCAR	76.3	917.0	852.4	4,580	0	PL 83-780.
		Marais des Cygnes R ...	F	5.7	1,266.0	1,242.4	410	100	HD 642-81.
		Republican R	F	0.8	1,242.4	1,218.0	100	3	PL 85-500.
		Missouri R	FCR	370.0	1,508.0	1,463.0	13,999	3,560	HD 396-84.
		Olive Br of Salt Cr	FI	55.8	1,463.0	1,425.0	3,560	0	PL 75-761.
		Boxelder Cr Papio Cr ...	F	0.3	5,362.0	5,342.0	38	0	PL 78-534, HD 842-76.
		Trib South Branch Papio	F	30.4	801.0	791.1	3,670	2,429	PL 80-858, PL 84-99.
		No. Middle Cr of Salt Cr	FCAR	34.6	791.0	751.1	2,429	0	PL 89-298.
		Delaware R	F	24.8	909.0	891.0	1,960	930	HD 238-89.
		Piquest Cr	FCAR	22.1	891.0	810.0	930	0	PL 90-483.
		Pomme De Terre R	FCAR	208.4	1,057.0	1,036.0	13,948	6,928	HD 169-90.
		110 Mile Cr	FNPMCAR	154.4	1,036.0	960.0	6,928	0	PL 83-780.
			F	756.7	1,176.2	1,144.4	27,255	17,270	PL 75-761, HD 549-81.
			FCA	388.8	1,144.4	1,080.0	15,709	0	PL 83-780.
			F	1,097.0	1,620.0	1,617.0	373,000	359,000	HD 642-81, PL 75-761.
			FNPMCAR	16,789.0	1,617.0	1,540.0	359,000	117,000	PL 78-534.
			F	4.0	1,350.0	1,335.0	355	174	SD 247-78.
			FCR	1.5	1,335.0	1,314.0	174	4	HD 396-84.
			F	7.1	1,128.2	1,110.0	595	255	PL 85-500.
			FCAR	3.4	1,110.0	1,060.5	255	0	PL 90-483.
			F	6.1	1,113.1	1,096.0	493	246	HD 349-90.
			FCAR	2.7	1,096.0	1,069.0	246	10	PL 90-483.
			F	21.0	1,263.5	1,244.3	1,470	728	HD 349-90.
			FCR	8.5	1,244.3	1,206.0	728	1	PL 85-500.
			F	521.9	920.6	891.5	25,342	12,202	HD 396-84.
			FN	243.2	891.5	825.0	122	0	PL 83-780.
			F	137.0	1,496.3	1,442.4	4,754	885	HD 642-81.
			FRC	407.2	874.0	839.0	15,980	7,890	PL 89-298.
			FNPCAR	241.6	839.0	750.0	7,890	0	HD 266-89.
			F	176.8	1,003.0	974.0	8,520	400	PL 75-761.
									HD 549-81, PL 83-780.

APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
Rathbun Lk	IA Appanoose	Chariton R	FNMAR F	70.6 346.3	974.0 926.0	912.0 904.0	4,000 20,948	0 11,013	HD 549–81. PL 83–780.
Smithville Lk	MO Clay	Little Platte R	FNM F	205.4 101.8	904.0 876.2	844.0 864.2	11,013 9,995	0 7,192	HD 561–81. PL 89–298.
Spring Gulch Imbankment	CO Douglas	Spring Gulch	FMCAR F	144.6 1.8	864.2 5,600.00	799.0 5,335.0	88 88	0 0	HD 262–89. PL 81–516, HD 669–80.
Stagecoach Lk & Dam 9	NE Lancaster	Hickman Br of Salt Cr	F F	4.7 1.9	1,285.0 1,271.1	1,246.0 1,246.0	490 196	196 0	PL 85–500. HD 396–84.
Standing Bear Lk & Dam 16	NE Douglas	Trib Big Papillion Cr	FRC F	3.7 1.5	1,271.1 1,104.0	1,246.0 1,060.0	302 137	137 0	PL 81–516, HD 669–80. PL 90–483.
Stockton Lk	MO Cedar	Sac R	FRC F	779.6 887.1	892.0 867.0	867.0 760.0	38,288 24,777	24,777 0	HD 349–90. PL 83–780.
Tuttle Creek Lk	KS Riley	Big Blue R	FARPN F	1,937.4 177.1	1,136.0 1,075.0	1,075.0 1,061.0	54,179 14,875	14,875 0	HD 549–89. PL 75–761.
Twin Lakes & Dam 13	NE Seward	Middle Cr Salt Cr	F F	5.3 2.8	1,355.0 1,341.0	1,341.0 1,306.0	505 255	255 1	HD 842–76. PL 85–500.
Wagon Train Lk & Dam 8	NE Lancaster	Hickman Br of Salt Cr	CFR F	6.8 2.5	1,302.0 1,287.8	1,287.8 1,260.0	660 303	303 4	HD 396–84. PL 85–500.
Wehrspann Lk & Dam 20	NE Sarpy	Trib South Branch Papio	FCR F	6.1 2.7	1,113.1 1,096.0	1,096.0 1,069.0	493 246	246 10	HD 396–84. PL 90–483.
Wilson Lk	KS Russell	Saline R	FCAR F	530.7 247.8	1,096.0 1,554.0	1,069.0 1,516.0	246 19,960	246 9,040	HD 349–90. PL 78–534.
Yankee Hill Lk & Dam 10	NE Lancaster	Cardwell Br of Salt Cr	FRC F	5.6 2.0	1,516.0 1,262.0	1,440.0 1,244.9	9,040 475	208 0	SD 191–78, SD 247–78. PL 85–500.
			FCR		1,244.9	1,218.0	208		HD 396–84.
North Atlantic Division									
Almond Lake	NY Steuben	Canacadea Cr	F	14.6	1,300.0	1,255.0	489	124	PL 74–738.
Alvin R. Bush Dam	PA Clinton	Kettle Cr	F	73.4	937.0	840.0	1,430	160	FCA Sep 54.
Arkport Dam	NY Steuben	Canisteo R	F	8.0	1,304.0	1,218.0	192	0	PL 74–738.
Aylesworth Cr Lk	PA Lackawanna	Aylesworth Cr	F	1.7	1,150.0	1,108.0	87	7	PL 87–874.
Beltzville Dam & Lk	PA Carbon, Monroe	Pohopoco Cr	F	27.0	651.0	628.0	1,411	947	PL 87–874.
Bloomington Lk	MD Garret	North Branch Potomac R	FMA F	39.8 36.2	628.0 1,500.0	537.0 1,466.0	947 1,184	113 952	PL 87–874.
Blue Marsh Dam & Lk	PA Lebanon Berks	Tulpehocken CR	FMA F	92.0 27.1	1,466.0 307.0	1,255.0 290.0	952 2,159	42 1,147	PL 87–874.
Cowanesque Lk	PA Tioga	Cowanesque R	FMA F	19.9	290.0	261.0	1,147	323	PL 85–500.
Cuwensville Lk	PA Clearfield	West Branch Susquehanna R	F	82.0	1,117.0	1,045.0	2,060	410	FCA Sep 54.
East Sidney Lk	NY Delaware	Ouleout Cr	F	114.7	1,228.0	1,162.0	3,020	790	PL 74–738.
Foster Joseph Sayers Dam	PA Centre	Bald Eagle Cr	F	30.2	1,203.0	1,150.0	1,100	210	FCA Sept 54.
			F	70.2	657.0	630.0	3,450	1,730	

North Central Division									
Francis E. Walter Dam & Res	PA Carbon, Luzerne, Monroe	Lehigh R	F	107.8	1,450.0	1,300.0	1,830	80	PL 79-526.
Gathright Dam & Lk Moonaw	VA Alleghany, Bath	Jackson R	F	79.9	1,610.0	1,582.0	3,160	2,530	PL 79-526.
General Edgar Jadwin Dam	PA Wayne	Dyberry Cr	AR	60.7	1,582.0	1,554.0	2,530	1,780	0
Prompton Dam & Res	PA Wayne	W Br Lackawaxen R	F	24.5	1,053.0	973.0	659	290	PL 80-858.
Raystown Lk	PA Wayne	Raystown Br	F	48.5	1,205.0	1,125.0	910	8,300	PL 80-858.
Stillwater Lk	PA Huntington	Raystown Br	FR	24.0	812.0	786.0	10,800	150	PL 87-874.
Tioga-Hammond Lakes Hammond	PA Susquehanna	Lackawanna R	F	514.0	786.0	622.8	8,300	83	PL 77-228.
Tioga-Hammond Lakes Hammond	PA Tioga	Crooked Cr	F	11.6	1,621.0	1,572.0	422	680	PL 85-500.
Tioga-Hammond Lakes Tioga	PA Tioga	Tioga R	F	54.2	1,131.0	1,086.0	1,770	470	PL 85-500.
Whitney Point Lk	NY Broome	Oiselic R	F	52.5	1,131.0	1,081.0	1,630	1,200	PL 74-738.
York Indian Rock Dam	PA York	Codorus Cr	F	66.5	1,010.0	973.0	3,340	0	PL 74-738.
231									
Badhill Dam & Res	ND Barnes	Shenoyenne R	FM	68.6	1,266.0	1,257.2	5,430	4,430	FCA Dec 44.
Brandon Road L&D	IL Will	Illinois R	N	8.0	539.0	538.0	300	250	PL 71-126.
Cedars L&D	WI Outagamie	Fox R	N	1.8	703.6	698.7	255	140	RHA of 1882, 1885.
Coraville Dam & Res	IA Johnson	Iowa R	F	439.0	712.0	680.0	24,800	3,580	PL 75-761.
Depree L&D	WI Brown	Fox R	C	40.3	680.0	652.0	3,580	0	PL 75-761.
Dresden Island L&D	IL Grundy	Illinois R	N	9.4	591.0	586.7	926	0	PL 71-126.
Eau Galle Dam & Res	WI Pierce	Eau Galle R	FCR	1.0	505.0	504.0	1,690	1,550	FCA 1958.
Farmdale Dam	IL Tazewell	Farm Cr	F	11.3	616.0	551.0	385	1,350	PL 78-534.
Fondulac Dam	IL Tazewell	Fondulac Cr	F	2.3	579.0	530.0	97	0	PL 78-534.
Gull Lk Dam & Res	MI Cass	Gull R	N	70.4	1,194.0	1,192.7	13,100	12,700	RHA 1899.
Highway 75 Dam & Res	MI Bigstone, Lacqui, Parle	Minnesota R	FC	11.1	952.3	947.3	2,790	910	FCA Oct 65.
Homme Dam & Res	ND Walsh	Park R	FM	3.7	1,080.0	1,074.0	190	176	FCA of 22 Dec 44.
L&D 1	MI Hennepin, Ramsey	Mississippi R	N	13.0	725.1	722.8	5,800	5,500	RHA 1910.
L&D 2	MI Dakota, Wash	Mississippi R	N	8.0	687.2	686.5	11,810	11,000	RHA 1927.
L&D 3	MI Goodhue, Pierce	Mississippi R	N	17.8	675.0	674.0	17,950	17,650	RHA 1930.
L&D 4	WI Wabasha, Buffalo	Mississippi R	N	18.0	667.0	666.5	38,820	36,600	RHA 1930.
L&D 5	MI Winona, Buffalo	Mississippi R	N	6.2	660.0	659.5	12,680	12,000	RHA 1930.
L&D 5A	MI Winona, Buffalo	Mississippi R	N	7.2	651.0	650.0	7,500	7,000	RHA 1930.
L&D 6	MI Winona	Mississippi R	N	8.4	645.5	644.5	8,870	8,000	RHA 1930.
L&D 7	MI Winona	Mississippi R	N	2.6	639.0	639.0	13,440	13,400	RHA 1930.
L&D 8	WI LaCrosse	Mississippi R	N	20.4	631.0	630.0	20,800	20,000	RHA 1930.
L&D 9	WI Vernon	Mississippi R	N	28.7	620.0	619.0	29,125	28,300	RHA 1930.
L&D 10	IA Crawford	Mississippi R	N	16.8	611.0	610.0	17,070	16,500	RHA 1930.
L&D 11	IA Clayton	Mississippi R	N	19.1	603.1	602.0	21,100	20,000	PL 71-520.
L&D 12	IA Dubuque	Mississippi R	N	12.2	592.0	591.0	30,000	28,500	PL 71-520.
L&D 13	IA Jackson	Mississippi R	N	24.2	583.1	582.0	3,725	3,540	PL 71-520.
L&D 14	IA Whiteside	Mississippi R	N	9.0	571.0	571.0	10,500	9,980	PL 71-520.
L&D 15	IA Scott	Mississippi R	N	5.5	561.1	559.0	3,725	3,540	PL 71-520.

APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
L&D 16	IL Rock Island	Mississippi R	N	12.1	545.1	544.0	13,000	12,400	PL 71–520.
L&D 17	IL Mercer	Mississippi R	N	7.5	537.1	536.0	7,590	7,200	PL 71–520.
L&D 18	IL Henderson	Mississippi R	N	11.0	529.1	528.0	13,300	12,600	PL 71–520.
L&D 19	IA Lake	Mississippi R	N	55.0	518.2	517.2	33,500	31,800	PL 71–520.
L&D 20	MO Lewis	Mississippi R	N	5.8	481.5	476.5	7,960	7,550	PL 71–520.
L&D 21	IL Adams	Mississippi R	N	8.6	470.1	469.6	9,390	8,910	PL 71–520.
L&D 22	MO Polke	Mississippi R	N	8.4	459.6	459.1	8,660	8,230	PL 71–520.
Lac qui Parle Dam & Res	IL Chippewa Swift	Minnesota R	FC	119.3	941.1	931.2	13,500	6,400	FCA of 22 Jun 36.
Lagrange L&D	IL Brown	Illinois R	N	0.0	429.0	429.0	10,500	10,500	PL 73–184.
Leech Lake Dam & Res	IL Brown	Leech R	N	300.2	1,295.7	1,293.2	139,000	107,200	RHA of 1882 1895.
Little Kaukauna L&D	WI Brown	Fox R	N	3.6	601.0	592.8	447	420	RHA of 1882 1885.
Little Chute L&D	WI Outagamie	Fox R	N	0.4	694.2	688.9	74	67	RHA of 1882 1885.
Lockport Lock	IL Will	Chicago San Ship Canal	FNP	2.7	579.0	577.5	1,850	1,800	RHA 1930.
Lower Appleton L&D	WI Outagamie	Fox R	N	0.2	710.9	706.3	43	40	RHA of 1882 1895.
Marselles Lk & Dam	IL LaSalle	Illinois R	N	0.7	483.0	482.8	1,400	1,320	PL 71–126.
Marsh Lake Dam & Res	IL LaSalle	Minnesota R	FC	23.9	941.1	937.6	8,650	5,150	FCA Jun 36.
Menasha Dam Lk Winnebago	WI Winnebago	Fox R	FN	452.0	746.8	743.5	181,120	168,500	PL 74–738.
Mount Morris Dam	NY Livingston	Genesee R	F	337.4	760.0	585.0	3,300	0	RHA of 1946.
O'Brien L&D	IL Cook	Calumet	N	0.3	581.9	578.2	50	50	PL 73–184.
Peoria L&D	IL Peoria	Illinois R	N	0.0	440.0	440.0	27,800	27,800	RHA of 1899.
Pine Dam & Res	IL Peoria	Pine R	N	40.4	1,230.3	1,227.3	13,900	13,000	RHA of 1899.
Pokegama Dam & Res	IL Peoria	Illinois R	N	52.4	1,274.4	1,270.3	13,700	12,000	RHA of 1899.
Rapid Croche L&D	WI Itasca	Mississippi R	N	3.4	608.5	602.1	568	0	RHA 1885.
Red Lake Dam & Res	WI Clearwater	Fox R	FA	1,810.0	1,174.0	1,173.5	288,800	287,300	FCA Dec 44.
Red Rock Dam & Res	IA Marion	Des Moines R	F	1,670.0	780.0	728.0	65,400	8,000	PL 75–761.
Reservation Control Res	SD Roberts	Bois De Sioux	FC	58.8	981.0	976.0	12,400	10,950	FCA 1936.
Sandy Lake Dam & Res	IA Polk	Sandy R	N	37.5	1,218.3	1,214.3	10,600	8,200	RHA of 1899.
Saylorville Dam & Res	IA Polk	Des Moines R	F	586.0	890.0	836.0	16,700	5,950	FCA 1936.
St Anthony Falls Lwr L&D	MN Hennepin	Mississippi R	P	90.0	836.0	810.0	5,950	0	FCA.
St Anthony Falls Up L&D	MN Hennepin	Mississippi R	N	0.0	750.0	750.0	50	50	RHA of 1937 1945.
Starved Rock L&D	IL LaSalle	Illinois R	N	17.4	801.0	799.0	8,800	8,600	RHA of 1937 1945.
Upper Appleton L&D	WI Outagamie	Fox R	N	1.0	459.0	458.0	1,155	1,020	PL 69–100.
Upper Kaukauna L&D	WI Outagamie	Fox R	N	7.4	738.7	735.4	1,171	1,040	RHA of 1882 1885.
White Rock Dam & Res	MN Traverse	Bois De Sioux	N	1.1	656.8	652.8	134	115	RHA of 1882 1885.
Winnibigoshish Dam & Res	SD Roberts	Mississippi R	FC	78.6	981.0	972.0	10,500	4,000	FCA 1936.
Winnibigoshish Dam & Res	MN Cass Itasca	Mississippi R	N	98.7	1,300.9	1,296.9	98,700	62,000	RHA of 1899.
New England Division									
Ball Mountain Lk	VT Windham	West R	F	52.4	1,017.0	830.5	810	20	PL 78–534, 83–780.

Barre Falls Dam	MA Worcester	Ware R	24.0	807.0	761.0	1,400	0	PL 78-228.
Birch Hill Dam	MA Worcester	Millers R	49.9	852.0	815.0	3,200	0	PL 75-761.
Black Rock Lk	CT Litchfield	Branch Brook	8.5	520.0	437.0	190	21	PL 86-45.
Blackwater Dam	NH Merrimack	Blackwater R	46.0	566.0	515.0	3,280	0	PL 75-111.
Burlington Lk	MA Worcester	Little R	11.3	524.0	492.5	530	200	PL 77-228.
Colebrook River Lk	CT Litchfield	West Branch	50.2	761.0	708.0	1,185	750	PL 86-645.
Conant Brook Dam	MA Berkshire	Farmington R.	3.7	757.0	694.0	158	0	PL 86-645.
East Brimfield Lk	MA Hampden	Conant Brook	29.9	653.0	632.0	2,300	360	PL 77-228.
Edward MacDowell Lk	ter.	Quinebaug R						
Everett Lk	NH Hillsboro	Nubanusit Brook	12.8	946.0	911.0	840	165	PL 75-111.
Franklin Falls Dam	NH Hillsboro, Merrimack	Piscataquog R	91.5	418.0	340.0	2,900	130	PL 75-761.
Hancock Brook Lk	NH Belknap, Merrimack	Pemigewasset R	150.6	389.0	307.0	2,800	440	PL 75-111.
Hodges Village Dam	CT Litchfield	Hancock Brook	3.9	484.0	460.0	266	40	PL 86-645.
Hop Brook Lk	MA Worcester	French R	13.3	501.0	465.5	740	0	PL 77-228.
Hopkinton Lk	CT New Haven	Hop Brook	6.9	364.0	310.0	270	21	PL 86-645.
Knightsville Dam	NH Merrimack	Contoocook R	70.1	416.0	380.0	3,700	220	PL 75-761.
Littleville Lk	MA Hampshire	Westfield R	49.0	610.0	480.0	960	0	PL 75-761.
Mansfield Hollow Lk	MA Hampden, Hampshire.	Middle Br, Westfield R	23.0	576.0	518.0	510	275	PL 85-500.
New Bedford-Fairhaven Hurr Barrier	CT Tolland	Natchaug R	49.2	257.0	205.5	1,880	200	PL 77-228.
North Hardland Lk	MA Bristol	Otaquechee R	0.0	0.0	0.0	0	0	PL 85-500.
North Springfield Lk	VT Windsor	Black R	68.8	546.5	425.0	1,100	215	PL 75-761.
Northfield Br Lk	CT Litchfield	Northfield Br	50.0	545.5	467.0	1,200	100	PL 75-761.
Otter Br Lk	NH Cheshire	Otter Brook	2.4	576.0	500.0	67	7	PL 86-645.
Stamford Hurr Barrier	CT Fairfield	Ashuelot R	17.6	781.0	701.0	374	70	PL 83-780.
Surry Mountain Lk	NH Cheshire	West R	0.0	0.0	0.0	0	0	PL 86-645.
Thomaston Dam	CT Litchfield	Naugatuck R	31.7	550.0	500.0	970	260	PL 75-761.
Townshend Lk	VT Windham	East Br Tully R	42.0	494.0	380.0	960	0	PL 78-534.
Tully Lk	MA Worcester	West R	32.9	553.0	478.0	735	95	PL 79-534, PL 83-780.
Union Village Dam	MA Worcester	Ompompanoosuc R	20.5	688.0	638.0	1,130	78	PL 75-761.
West Hill Dam	MA Worcester	West R	38.0	564.0	420.0	740	0	PL 74-738.
West Thompson	CT Windham	Quinebaug R	12.4	264.0	234.0	1,025	0	PL 78-534.
Westville Lake	MA Worcester	Quinebaug R	25.6	342.5	305.0	1,250	200	PL 86-645.
			11.0	572.0	525.0	913	23	PL 77-228.
North Pacific Division								
Albani Falls Dam, Lk Pend, Oreille	ID Bonner	Pend Oreille R	1,155.0	2,062.5	2,049.7	95,000	86,000	PL 81-516
Applegate Lk	OR Jackson	Applegate R	75.2	1,987.0	1,854.0	988	221	FCA 1962, PL 87-874, PL 87-874.
Big Cliff Dam	OR Marion, Linn	N Santiam R	3.5	1,206.0	1,182.0	130	98	HD 544, PL 75-761, PL 87-874.
Blue River Lk	OR Lane	Blue R	6.5	1,357.0	1,350.0	975	940	HD 531.
Bonneville L&D Lk	WA Skamania	Columbia R	78.8	1,350.0	1,180.0	940	133	PL 81-516.
Chena River Lakes	AK North Star Borough	Chena R	138.0	77.0	70.0	20,800	19,850	RHA 1935.
Chief Joseph Dam Rufus Woods Lk	WA Douglas, Okanogan	Columbia R	34.0	506.7	490.0	5,400	400	PL 90-483.
Cottage Grove Lk	OR Lane	Coast Fk, Willamete R	192.3	956.0	930.0	8,400	6,800	HD 693, PL 79-525.
Cougar Lk	OR Lane	South Fk	29.8	791.0	750.0	1,155	295	HD 544, PL 75-761.
			11.3	1,699.0	1,690.0	1,280	1,235	HD 531.

APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
Detroit Lk	OR Marion	North Santiam	FNPI P	143.9 9.9	1,690.0 1,532.0	1,532.0 1,516.0	1,235 635	635 602	PL 81–516. PL 83–870.
Dexter Dam	OR Lane	Middle Fk, Willamette R	F	19.1	1,569.0	1,563.0	3,490	3,455	HD 544, PL 75–761.
Dorena Lk	OR Lane	Cow R	FNPI P	281.6 40.3	1,563.5 1,450.0	1,450.0 1,425.0	3,455 1,725	1,725 940	HD 544, PL 75–761.
Dwoshak Dam and Res	ID Clearwater	North Fk, Clearwater R	FNPI F	4.8 5.5	695.0 832.0	690.0 1,885	990	1,815	HD 544.
Fall Cr Dam and Lk	OR Lane	Fall Cr	FNPI F	65.0	832.0	770.5	1,815	520	PL 75–761.
Fern Ridge Lk	OR Lane	Long Tom R	FNPI F	2,016.0	1,600.0	1,445.0	17,090	9,050	HD 403, PL 87–874.
Foster Lake	OR Lane	South Santiam R	FNPI F	7.5	834.0	830.0	1,865	1,760	HD 531.
Green Peter Lk	OR Lane	Middle Fk, Santiam R	FNPI F	107.5	830.0	728.0	1,760	460	PL 81–516
Hills Creek Lk	OR Lane	Middle Fk, Willamette R	FNPI F	15.7	375.1	373.5	10,305	9,340	HD 544.
Howard Hanson Dam	WA King	Green R	FNPI F	93.9	373.5	353.0	9,340	1,515	PL 75–761
Ice Harbor Dam Lk Sacajawea	WA Walla, Walla, Frank- lin.	Snake R	FA NP	24.9	641.0	637.0	1,260	1,195	HD 544
John Day Dam Lk Umatilla	OR Sherman	Columbia R	F	24.9	637.0	613.0	1,195	895	PL 86–645
Libby Dam Lk Kootenai	MT Lincoln	Kootenai R	FNPI F	18.3	1,015.0	1,010.0	3,705	3,605	HD 531.
Little Goose L&D Lk Bryan	WA Columbia, Whitman	Snake R	FNPI F	249.9	1,010.0	992.0	3,605	2,072	PL 81–516, PL 83–780.
Lookout Point Lk	OR Lane	Middle Fk, Willamette R	FNPI F	5.6	1,543.0	1,541.0	2,850	2,710	HD 531.
Lost Creek Lk	OR Jackson	Rogue R	FNPI F	194.6	1,541.0	1,448.0	2,710	1,575	PL 81–516.
Lower Granite L&D	WA Garfield, Whitman	Snake R	FA NP	80.0	1,206.0	1,141.0	1,750	763	HD 531.
Lucky Peak Dam and Lk	ID Ada	Boise R	F	25.6	1,141.0	1,040.0	763	13	PL 81–516.
Lwr Monumental L&D Lk HG West	WA Walla, Walla, Frank- lin.	Snake R	NP	24.9	440.0	437.0	8,370	8,210	HD 704, PL 79–14.
McNary L&D, Dam Lk Wallula	WA Benton	Columbia R	F	158.0	288.0	265.0	55,000	52,000	HD 531.
Mill Creek Dam Lk	OR Umatilla	Mill Cr	FNPI F	150.0	265.0	262.0	52,000	49,000	PL 81–516.
Mud Mountain Dam	WA Walla, Walla	White R	FP	192.0	262.0	257.0	49,000	42,000	HD 531, PL 81–516.
The Dalles L&D Lk Cello	WA King, Pierce	Columbia R	PN	4,979.5	2,459.0	2,287.0	46,365	14,391	HD 704, PL 79–14.
Willow Creek Lk	OR Wasco	Willow Cr	FNPI F	49.0	638.0	633.0	10,030	9,620	HD 544.
			P	12.2	825.0	819.0	2,090	1,860	HD 544.
			FNPI	324.2	926.0	825.0	4,255	2,090	PL 75–761.
			FNPI	315.0	1,872.0	1,751.0	3,430	1,800	HD 566, PL 87–874.
			NPI	43.6	738.0	733.0	8,900	8,540	HD 704, PL 79–14.
			F	13.9	3,060.0	3,055.0	2,817	2,745	PL 79–526.
			FI	264.4	3,055.0	2,905.0	2,817	802	HD 704, PL 79–14.
			NP	20.0	540.0	537.0	6,700	6,550	HD 704, PL 79–14.
			NP	185.0	340.0	335.0	38,800	36,000	HD 704, PL 79–14.
			F	7.5	1,265.0	1,205.0	225	53	HD 578, PL 75–761.
			F	106.3	1,215.0	895.0	963	0	PL 74–738.
			NP	52.5	160.0	155.0	11,200	10,350	HD 531, PL 81–516.
			F	11.6	2,113.5	2,047.0	269	96	PL 89–298.

Wynoochee Dam and Lk	WA Grays, Harbor	Wynoochee R	FMCA	65.4	800.0	700.0	1,170	193	HD 601, PL 93-251.
Ohio River Division									
Allegheny L&D 2	PA Allegheny	Allegheny R	N	0.0	721.0	710.0	0	0	RHA 1935.
Allegheny L&D 3	PA Allegheny	Allegheny R	N	0.0	734.5	721.0	0	0	RHA 1935.
Allegheny L&D 4	PA Allegheny Westmoreland.	Allegheny R	N	0.0	745.0	734.5	0	0	RHA 1912.
Allegheny L&D 5	PA Armstrong	Allegheny R	N	0.0	756.8	745.0	0	0	RHA 1912.
Allegheny L&D 6	PA Armstrong	Allegheny R	N	0.0	769.0	756.8	0	0	RHA 1912.
Allegheny L&D 7	PA Armstrong	Allegheny R	N	0.0	782.1	769.0	0	0	RHA 1912.
Allegheny L&D 8	PA Armstrong	Allegheny R	N	0.0	800.0	782.1	0	0	RHA 1912, 1935.
Allegheny L&D 9	PA Armstrong	Allegheny R	N	0.0	822.0	800.0	0	0	RHA 1935.
Allegheny Res Kinzua Dam	PA Warren	Allegheny R	N	607.0	1,365.0	1,328.0	21,180	12,080	PL 74-738.
Alum Cr Lk	OH Delaware	Alum Cr	FPCAR	549.0	1,328.0	1,240.0	12,080	1,900	
Atwood Lk	OH Tuscarawas	Indian Fk Cr	F	79.2	901.0	888.0	4,852	3,387	PL 87-874.
Barkley Dam Lk Barkley	Ky Lyon, Livgst	Cumberland R	F	26.1	941.0	928.0	2,460	1,540	PW 1933.
Barren River Lk	Ky Allen, Barren	Barren R	F	1,213.0	375.0	359.0	93,430	57,920	PL 79-525.
Beach City Lk	OH Tuscarawas	Sugar Cr	F	259.0	359.0	354.0	57,920	45,210	
Beech Fk Lk	WV Wayne	Beech Fk Cr	F	610.0	354.0	233.0	45,210	0	
Belleville L&D	WV Wood	Ohio R	F	588.8	590.0	552.0	20,150	10,000	PL 75-261.
Berlin Lk	OH Meigs	Mahoning R	F	190.3	552.0	525.0	10,000	4,340	
Bluestone Lk	WV Summers	New R	F	69.9	976.5	948.0	6,150	420	PW 1933.
Bolivar Dam	OH Stark, Tuscarawas ..	Sandy Cr	F	0.0	0.0	0.0	0	420	
Brookville Lk	IN Franklin	E Fork of Whitewater R ..	F	28.3	614.5	592.0	1,847	725	PL 87-874.
Buckhorn Lk	Ky Leslie	Middle Fk of Kentucky R ..	F	5.0	592.0	583.5	725	460	
Burnsville Lk	WV Braxton	L Kanawha R	F	0.0	582.0	560.0	0	0	RHA 1909.
CJ Brown Dam & Res	OH Clark	Buck Cr	F	38.3	1,032.0	1,024.7	5,500	3,590	PL 75-761.
CM Harden Lk	IN Parke	Raccoon Cr	F	56.6	1,024.7	1,016.5	3,590	2,200	
Caesar Cr Lk	OH Warren	Caesar Cr	F	592.6	1,520.0	1,410.0	9,180	2,040	PL 74-738.
Cadles Mill Lk	IN Putman	Mill Cr	F	7.5	1,410.0	1,406.0	2,040	1,800	PL 75-761.
Cannelton L&D	Ky Hancock	Ohio R	F	149.6	962.0	895.0	6,500	0	PW 1933.
Carr Fk Lk	Ky Knott	Carr Cr	F	128.4	748.0	713.0	5,260	2,430	PL 75-761.
			F	135.8	840.0	782.0	3,610	1,230	PL 75-761.
			FR	21.8	782.0	757.0	1,230	550	
			F	51.5	825.0	789.0	1,902	965	PL 75-761.
			FCAR	10.2	789.0	776.0	965	553	
			F	26.8	1,023.0	1,012.0	2,720	2,120	PL 87-874.
			F	83.5	690.0	661.0	3,910	2,060	PL 75-761
			FAR	33.1	661.0	640.0	2,060	1,100	
			F	140.2	883.0	849.0	6,110	2,830	PL 75-761.
			FMAR	88.7	849.0	800.0	2,830	700	
			F	201.0	704.0	636.0	4,840	1,400	PL 75-761.
			N	0.0	383.0	358.0	0	0	RHA 1909
			F	25.1	1,055.0	1,027.0	1,120	710	PL 87-874.
			FAR	10.8	1,027.0	1,009.0	710	530	

APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
Cave Run Lk	KY Rowan	Licking R	F	391.5	765.0	730.0	14,870	8,270	PL 74–738
Center Hill Lk	TN Dekalb	Caney Fk	FAR	75.3	730.0	720.0	6,790	8,270	PL 75–761.
Charles Mill Lk	OH Ashland	Black Fk	P	762.0	685.0	648.0	23,060	18,220	PW 1933.
Cheatham L&D	TN Cheatham	Cumberland R	FCR	492.0	648.0	618.0	18,220	14,590	RHA 1946, PL 396.
Clendening Lk	OH Harrison	Brush Fk	P	80.6	1,020.0	997.0	6,050	1,350	PL 396.
Conemaugh River Lk	PA Indiana, Westmore- land	Conemaugh R	FCR	4.5	987.0	993.0	1,350	827	RHA 1909.
Cordell Hull Dam & Res	TN Smith	Cumberland R	N	19.8	385.0	382.0	7,450	5,630	PL 75–761.
Crooked Cr Lk	PA Armstrong	Crooked Cr	F	84.2	382.0	345.0	5,630	0	PW 1933.
Dale Hollow Lk	TN Clay	Ober R	F	27.5	910.5	898.0	2,620	1,800	PL 74–738, PL 75–761.
Dashields L&D	PA Allegheny	Ohio R	FCR	8.0	898.0	893.0	1,800	1,430	RHA 1946, PL 396.
Deer Cr Lk	OH Pickaway	Deer Cr	F	270.0	975.0	880.0	6,820	300	PL 396.
Delaware Lk	OH Delaware	Olentangy R	PR	17.8	504.5	499.0	12,200	9,820	RHA 1946.
Dewey Lk	KY Floyd	Johns Cr	NR	0.0	499.0	424.0	9,820	0	PL 74–738, PL 75–761.
Dillon Lk	OH Muskingum	Licking R	F	353.0	663.0	651.0	30,990	350	PL 75–761.
Dover Dam	OH Tuscarawas	Tuscarawas R	P	496.0	651.0	631.0	27,700	21,880	RHA 1909.
E Br Clarion River Lake	PA Elk	E Br Clarion R	F	81.5	844.0	810.0	4,046	1,277	PL 75–761.
E Fk Res Wm H Harsha Lk	OH Clermont	E Fk Little Miami R	FCR	14.6	810.0	796.0	1,277	727	PL 75–761
East Lynn Lk	WV Wayne	E Fk Twelvepole	FCAR	118.0	947.0	915.0	8,550	1,270	PL 75–761
Emsworth L&D	PA Allegheny	Ohio R	F	5.6	915.0	910.0	1,270	950	PL 75–761
Fishtrap Lk	KY Pike	Levisa Fk	F	76.1	686.0	650.0	3,340	1,100	PL 75–761
Gallipolis L&D	WV Mason	Ohio R	FCR	4.9	650.0	645.0	1,100	880	PL 75–761.
Grayson Lk	OH Gallia	L Sandy R	F	256.5	790.0	737.0	10,280	1,560	PW 1933.
Green R L&D 1	KY Carter	Green R	F	4.4	737.0	734.0	1,560	1,330	PL 78–526.
Green R L&D 2	KY Henderson	Green R	F	203.0	916.0	858.0	10,100	0	PL 75–761.
Green River Lk	KY McLean	Green R	F	19.0	1,685.0	1,370.0	1,160	1,160	RHA 1909.
	KY Taylor	Green R	N	19.8	1,670.0	1,651.0	920	920	PL 75–761.
			F	202.2	795.0	733.0	4,600	2,160	PL 75–761.
			F	73.6	733.0	683.0	2,160	820	PL 75–761.
			F	65.3	701.0	662.0	2,351	1,005	PL 75–761.
			F	5.5	662.0	656.0	1,005	823	RHA 1909.
			N	0.0	710.0	692.0	0	0	PL 75–761.
			F	126.7	825.0	757.0	2,681	1,131	RHA 1935.
			FCAR	27.2	757.0	725.0	1,131	569	PL 86–645.
			N	0.0	538.0	515.0	0	0	RHA 1888.
			F	89.6	681.0	645.0	3,633	1,509	PL 75–761.
			FCAR	10.7	645.0	637.0	1,509	1,159	PL 86–645.
			N	0.0	349.1	337.3	0	0	RHA 1888.
			N	0.0	363.4	349.1	0	0	RHA 1888.
			F	479.1	713.0	675.0	19,100	8,210	PL 75–761.
			FAR	81.5	675.0	664.0	8,210	6,650	PL 75–761.

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APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
Montgomery Island L&D	PA Beaver	Ohio R	FMA	159.9	538.0	515.0	10,750	3,280	RHA 1909.
Morgantown L&D	WV Monongalia	N	N	814.0	682.0	664.5	0	0	RHA 1909.
Mosquito Cr Lk	OH Trumbull	Mosquito Cr	F	21.7	904.0	901.4	8,900	7,850	PL 75–761.
N Br Kokosing River Lk	OH Knox	North Br of Kokosing R	F	80.4	901.4	899.9	7,850	7,220	PL 87–874.
N Fk Pound Lk	VA Wise	N Fk Pound R	F	13.9	1,146.0	1,121.0	1,140	154	PL 86–845.
New Cumberland L&D	WV Hancock	Ohio R	F	8.0	1,644.0	1,611.0	349	154	RHA 1909.
Newburgh L&D	OH Jefferson	Ohio R	N	1.3	1,611.0	1,601.0	154	106	RHA 1909.
Nolin Lk	KY Henderson	Ohio R	N	0.0	664.5	644.0	0	0	RHA 1909.
Ohio R L&D 52	IN Warrick	Nolin R	F	0.0	358.0	342.0	0	0	PL 75–761.
Ohio R L&D 53	KY McCracken	Ohio R	FR	439.2	560.0	515.0	14,530	5,790	RHA 1909, 1910, 1918.
Old Hickory L&D	IL Massac	Ohio R	N	106.4	302.0	290.0	0	0	RHA 1909, 1910, 1918.
Opeskiska L&D	KY Ballard	Ohio R	N	0.0	290.0	276.6	0	0	RHA 1946.
Paint Cr Lk	IL Pulaski	Cumberland R	P	63.0	445.0	442.0	22,500	19,550	RHA 1950.
Paintsville Lk	TN Davidson	Monongahela R	N	357.0	442.0	375.0	0	0	PL 75–761.
Patoka Lk	WV Monongalia	Paint Cr	F	124.7	857.0	835.0	4,761	1,190	PL 89–298.
Piedmont Lk	OH Ross, Highland	Paint Cr	F	11.4	798.0	798.0	1,190	770	PL 89–298.
Pike Island L&D	KY Johnson	Patoka R	F	32.8	731.0	709.0	1,867	261	PL 89–298.
Pleasant Hill Lk	IN DuBois	Stillwater Cr	F	36.3	709.0	650.0	1,139	888	PW 1933.
R D Bailey Lk	OH Harrison	Ohio R	F	121.1	548.0	536.0	11,300	2,010	RHA 1909.
Racine L&D	WV Ohio	Clear Fk	F	167.3	536.0	506.0	8,880	2,310	PW 1933.
Rough River Lk	OH Belmont	Guyandot R	F	32.2	924.6	913.0	3,170	1,987	RHA 1909.
Salamonie Lk	WV Mingo, Wyoming	Ohio R	N	8.6	913.0	909.0	2,310	0	PW 1933.
Seneca Fk Lk	OH Mason	Rough R	F	0.0	644.0	623.0	0	0	RHA 1909.
	OH Meigs	Rough R	F	74.2	1,065.0	1,020.0	2,600	850	PW 1933.
	Grayson, Breckinridge	Salamonie R	F	5.5	1,020.0	1,012.5	850	627	PL 87–874.
	Ridge	Seneca Fk	F	169.5	1,155.0	1,035.0	2,850	630	RHA 1909.
	IN Wabash		FCR	12.2	1,035.0	1,012.0	630	440	PL 75–761.
	OH Guernsey		N	0.0	560.0	538.0	0	0	PL 85–500.
			F	214.4	524.0	495.0	10,260	5,100	PW 1933.
			F	90.2	495.0	470.0	5,100	2,180	
			F	202.9	793.0	755.0	2,860	976	
			F	47.6	755.0	730.0	2,860	3,550	
			F	45.1	842.5	832.2	3,550	2,912	
			F	12.8	832.2	828.2	3,550	2,912	

Shenango River Lk	PA Mercer	Shenango R	F	151.0	919.0	896.0	11,090	3,560	PL 75-761.
Smithland L&D	KY Livingston	Ohio R	FCAR	29.9	324.0	885.0	3,560	1,910	RHA 1909.
Summersville Lk	IL Pope	Gauley R	N	0.0		302.0	0	0	
Sutton Lk	WV Nicholas			221.9	1,710.0	1,165.0	4,913	2,790	PL 75-761.
Tappan Lk	WV Braxton	Elk R	FRCA	161.8	1,652.0	1,535.0	2,790	514	
	OH Harrison	L Stillwater Cr	FCAR	60.0	925.0	850.0	1,520	270	PL 75-761.
			F	26.5	909.0	899.3	3,100	2,350	PW 1933.
Tonestia Lk	PA Forest	Tionesta Cr	FCR	11.4	899.3	894.0	2,350	1,960	
Tom Jenkins Dam, Burr Oak, Lk	OH Athens	E Br Sandy Cr	F	125.6	1,170.0	1,085.0	2,770	480	PL 74-738. PL 75-761.
	WV Taylor		F	17.6	740.0	721.0	1,192	664	FCA 1944.
			FRM	5.8	721.0	710.0	664	394	PL 78-534.
Tygart Lake	PA Erie	Tygart R	F	178.1	1,167.0	1,094.0	3,430	1,740	PWA 1934.
Union City Res	OH Washington	French Cr	FMACR	99.9	1,094.0	1,010.0	1,740	620	
Uniontown L&D	OH Coshockton Wills Cr, Muskingum.	Ohio R	F	47.6	1,278.0	1,210.0	2,290	0	PL 87-874.
W FK of Mill Cr Winton Woods Lk	PA Erie	Ohio R	N	0.0	342.0	324.0	0	0	RHA 1909.
Willow Island L&D	IN Posey			9.8	702.0	675.0	557	183	PL 79-526.
Wills Cr Lk	OH Hamilton	W Fk Mill Cr	F	0.0	602.0	582.0	0	0	RHA 1909.
	WV Pleasant	Ohio R	N	0.0					
	OH Washington			190.0	779.0	742.0	11,450	900	PW 1933.
	OH Coshockton Wills Cr, Muskingum.		F						
Winfield L&D	WV Putnam	Kanawha R	CR	0.0	0.0	0.0	0	0	
Wolf Cr Dam, Lk Cumberland	KY Russell	Cumberland R	N	0.0	566.0	538.0	0	0	RHA 1935.
Woodcock Cr Lk	PA Crawford	Woodcock Cr	P	2,142.0	723.0	673.0	50,250	35,820	
			F	2,094.0	760.0	723.0	63,530	50,250	PL 75-761.
Youghiogheny R Lk	PA Fayette	Youghiogheny R	F	15.0	1,209.0	1,181.0	775	325	FCA 1962.
			FCAR	5.0	1,181.0	1,162.5	325	100	
			F	99.5	1,470.0	1,439.0	3,570	2,840	FCA 1938.
			FCAR	149.3	1,439.0	1,419.0	2,840	2,300	

South Atlantic Division									
Aberdeen L&D and Res	MS Monroe	Tombigbee R	N	3.9	190.5	189.5	4,359	3,883	PL 79-525.
Aliceville Lock Dam & Res	AL Pickens	Tombigbee R	N	7.6	136.5	135.5	8,655	7,945	PL 79-525.
Allatoona Dam & Res	GA Bartow	Etowah R	F	302.6	860.0	840.0	19,201	11,862	PL 77-228.
B Everett Jordan Dam & Lk	NC Chatham	Haw R	PMAR	284.6	840.0	800.0	11,862	3,251	
Bay Springs Lock Dam & Res	MS Tishomingo	Tombigbee R	F	538.4	240.0	216.0	31,811	13,942	PL 88-253.
Buford Dam Lk, Sidney Lanier	GA Forsyth, Gwinnett	Chattahoochee R	FMCAR	140.4	216.0	202.0	13,942	6,658	
Carters Dam & Res	GA Murray	Coosawattee R	N	37.0	414.0	408.0	6,700	5,740	PL 79-525.
Claiborne Lock Dam & Res	AL Monroe	Alabama R	F	598.8	1,085.0	1,071.0	47,182	38,542	PL 79-14.
Clarks Hill Dam & Lk	GA Columbia	Savannah R	PNMR	1,087.6	1,071.0	1,035.0	38,542	22,442	
Coffeeville Lock Dam & Res	SC McCormick	Tombigbee R	F	89.2	1,099.0	1,074.0	3,880	3,275	PL 79-14.
Columbus Lock Dam & Res	AL Clark, Choctaw	Tombigbee R	PRA	41.4	1,074.0	1,022.0	3,275	2,196	
Demopolis Lock Dam & Res	MS Lowndes	Tombigbee R	N	16.6	35.0	32.0	5,930	5,210	PL 79-14.
	AL Sumter, Marengo	Tombigbee R	F	390.0	335.0	330.0	78,500	71,100	PL 78-534.
			FP	1,045.0	330.0	312.0	45,000	45,000	
			N	19.9	32.5	30.0	8,500	7,500	PL 60-317.
			N	8.5	163.5	162.5	9,400	8,500	PL 79-525.
			N	0.0	73.0	73.0	10,000	10,000	PL 60-317.

APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
Falls Dam & Lk	NC Wake	Neuse R	F	220.9	284.0	250.1	20,810	11,310	PL 89–298.
G W Andrews L&D and Res	AL Houston	Chattahoochee R	FMCAR	89.7	250.1	236.5	11,310	2,600	PL 79–14.
Gainesville L&D and Res	GA Early	Tombigbee R	N	8.2	102.0	96.0	1,540	1,190	PL 79–525.
Hartwell Dam & Lk	AL Sumter, Greene	Savannah R	F	5.8	109.5	108.5	6,920	5,900	PL 81–516.
Holt Lock Dam & Res	SC Anderson	Black Warrior R	FP	293.0	665.0	660.0	61,400	55,950	PL 60–317.
Inglis Dam Lk Rousseau	AL Tuscaloosa	Cross FL Barge Canal	NP	1,416.0	187.0	186.0	3,296	3,252	PL 77–675.
Jim Woodruff L&D	FL Levy, Marion, Citrus	Apalachicola R	N	13.0	27.5	24.0	4,030	2,040	PL 79–14.
John H Kerr Dam & Res	FL Gadsden, Jackson	Roanoke R	NP	20.0	77.5	76.5	38,850	36,000	PL 78–534.
John Hollis Bankhead L&D and Res ..	VA Mecklenburg	Black Warrior R	F	1,281.4	320.0	300.0	83,200	48,900	PL 60–168.
Lk Okeechobee	AL Tuscaloosa	Central and Southern FL	NP	1,027.0	300.0	268.0	48,900	19,700	PL 71–520, PL 75–392,
Lock A	FL Okeechobee, Glades, Hendry, Palm Beach, Martin	Tombigbee R	FNIMC	27.1	255.0	252.0	9,245	8,730	PL 79–14, PL 80–858,
Lock B	MS Monroe	Tombigbee R	N	2,859.0	17.5	10.5	454,900	326,000	PL 83–780, PL 90.
Lock C	MS Monroe	Tombigbee R	N	0.9	220.5	219.5	980	850	PL 79–525.
Lock D	MS Itawamba	Tombigbee R	N	2.7	245.5	244.5	2,841	2,615	PL 79–525.
Lock E	MS Itawamba	Tombigbee R	N	1.6	270.5	269.5	1,699	1,586	PL 79–525.
Millers Ferry L&D	MS Itawamba, Prentiss	Tombigbee R	N	2.0	300.5	299.5	2,021	1,959	PL 79–525.
Okatibbee Dam & Res	AL Wilcox	Alabama R	NP	0.9	330.5	329.5	889	821	PL 79–525.
Philpott Dam & Lk	MS Lauderdale	Okatibbee Cr	F	16.7	80.0	79.0	17,201	16,160	PL 79–14.
R B Russell Dam and Lk	VA Henry	Chickasawbay R	RMA	46.5	352.0	343.0	6,580	3,800	PL 87–874.
Robert F Henry Lock Dam & Res	GA Elbert	Smith R	F	34.3	985.0	974.0	3,370	2,880	PL 78–534.
Rodman Dam & Lk Ocklawaha	SC Abbeville	Savannah R	FP	111.2	974.0	920.0	2,880	1,350	PL 89–789.
S–10 & Water Cons Area 1	AL Autauga, Lowndes	Alabama R	FP	140.0	480.0	475.0	29,340	26,653	PL 79–14.
S–11 & Water Cons Area 2A	FL Putman & Marion	Cross FL Barge Canal	NP	126.8	475.0	470.0	26,653	24,117	PL 77–675.
S–12 & Water Cons Area 3A	FL Putman & Marion	Central and Southern FL	N	44.6	125.0	124.0	13,300	10,470	PL 80–858.
Selden Lock and Res	FL Palm Beach	Central and Southern FL	F	48.0	23.2	20.0	17,350	12,950	PL 80–858.
W Kerr Scott Dam & Res	FL Broward & Dade	Black Warrior R	FIMC	181.9	18.3	17.0	141,250	141,250	PL 80–858.
Walter F George L&D	AL Hale, Greene	Yadkin R	F	273.2	17.0	14.0	141,250	26,000	PL 80–858.
West Point Dam & Res	NC Wilkes	Chattahoochee R	FIMC	236.3	16.6	14.5	110,500	110,500	PL 83–780.
William Bacon Oliver L&D and Res ...	GA Clay	Chattahoochee R	F	165.0	14.5	13.0	110,500	107,500	PL 80–858.
	AL Troup	Chattahoochee R	F	1,661.0	14.5	10.5	487,200	385,000	PL 83–780.
	AL Tuscaloosa	Black Warrior R	FIMC	485.0	10.5	9.5	385,000	316,000	PL 60–317.
		Yadkin R	F	9.1	95.5	94.0	8,200	6,900	PL 79–526.
		Chattahoochee R	FM	112.0	1,075.0	1,030.0	4,000	1,475	PL 81–516.
		Chattahoochee R	NP	33.0	1,030.0	1,000.0	45,181	36,375	PL 87–874.
		Black Warrior R	NPMAR	244.0	190.0	184.0	25,864	790	PL 60–317.
			N	306.1	635.0	620.0	15,512	790	
				0	122.9	122.9			

South Pacific Division									
AZ Mohave, Yuma	Bill Williams R	F	1,046.2	1,235.0	1,174.0	13,307	7,045	PL 78-534.	
CA Mariposa	Bear Cr	F	7.7	413.5	344.0	265	0	PL 78-534.	
CA Tehama	Sony Cr	FI	137.1	473.5	414.6	4,453	577	PL 78-534.	
CA Orange	Brea Cr	F	4.0	279.0	208.0	163	0	FCA 1936.	
CA Madera	Chowchilla R	FI	45.0	587.0	559.0	1,785	1,482	PL 78-874.	
CA Merced	Burns Cr	FI	140.0	587.0	466.0	1,785	484		
CA Orange	Carbon Cr	F	6.8	300.0	266.0	662	0	PL 78-534.	
CA Mendocino	East Fork, Russian R	F	6.6	475.0	403.0	225	0	PL 74-738.	
CA Sonoma	Dry Cr	IM	50.1	764.8	737.5	1,922	1,740	PL 75-761.	
CA San Joaquin, Stanislaus	Littlejohn Cr	MR	72.3	737.5	637.0	1,740	20		
CA Orange	Fullerton Cr	F	136.0	495.0	451.1	3,600	2,600	PL 87-874.	
CA Los Angeles	Fresno R	FI	225.0	451.1	291.0	2,600	500		
CA Madera	Kern R	MR	52.0	156.5	120.0	4,107	0	PL 78-534.	
CA Kern	Pocoma Wash	F	0.8	290.0	261.0	62	0	FCA 1936.	
CA Los Angeles	Mariposa Cr	F	25.4	1,060.0	990.0	781	0	FCA 1936.	
CA Mariposa	Mathews Canyon	FI	65.0	540.0	485.8	1,567	811	PL 87-874.	
CA Nevada	Mojave R	FI	85.0	540.0	448.0	1,567	280		
CA Lincoln	Calaveras R	F	588.1	2,605.5	2,470.0	11,454	26	PL 785-34.	
CA San Bernardino	Owens Cr	F	0.4	1,272.9	1,253.7	40	0	FCA 1936.	
CA Calaveras	Gila R	F	15.0	439.5	370.0	512	0	PL 78-534.	
CA Mariposa	Pine Canyon	F	19.6	5,838.0	5,780.0	762	61	PL 87-874.	
CA Fresno	Kings R	F	6.3	5,461.0	5,420.0	300	0	PL 81-516.	
CA Riverside	Santa Ana R	F	89.7	3,134.0	2,988.0	1,978	0	PL 86-645.	
CA Los Angeles	San Antonio Cr	F	165.0	713.0	666.2	4,333	2,818	PL 78-534.	
CA Los Angeles	San Gabriel R	FI	302.2	713.0	586.0	4,333	702		
CA Tulare	Tule R	F	3.6	407.5	347.0	174	0	PL 78-534.	
CA Tulare	Kaweah R	F	2,491.5	661.0	524.0	53,200	0	PL 81-516.	
CA Pinal	Queen Cr	F	7.8	5,675.0	5,604.0	254	0	PL 81-516.	
CA Los Angeles	San Gabriel Rio Hondo R.	F	1,000.0	951.5	565.5	5,956	0	PL 78-534.	
		F	196.2	543.0	460.0	6,630	0	FCA 1936.	
		F	7.7	2,238.0	2,125.0	145	0	FCA 1936.	
		F	32.1	496.0	421.0	1,084	0	FCA 1936, 1941.	
		F	17.4	710.0	668.0	1,335	0	FCA 1936.	
		FI	75.0	652.5	588.9	2,477	409	PL 78-534.	
		F	136.1	694.0	570.0	1,913	276	PL 78-534.	
		FI	35.6	2,166.0	2,056.0	828	0	PL 79-526.	
		F	34.9	228.5	184.0	2,411	0	FCA 1936.	
Southwestern Division									
NM Rio Arriba	Rio Chama	F	572.2	6,283.5	6,220.0	7,469	4,120	PL 80-858.	
TX Harris	Buffalo Bayou	FM	191.3	6,220.0	6,060.0	4,120	0		
TX Hill	Aquilla Cr	F	200.8	112.0	71.1	16,423	0	HD250-83-2.	
		F	161.4	564.5	537.5	8,980	3,280	PL 90-483.	
		MR	93.6	537.5	478.6	3,280	26		

APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
Arcadia Lk	OK Oklahoma	Deep Fork R	F	64.4	1,029.5	1,006.0	3,820	1,820	PL 91–811.
B A Steinhagen Lk	TX Taylor, Jasper	Neches R	FMCR	27.4	1,006.0	970.0	1,820	20	
Bardwell Lk	TX Ellis	Waxahachie Cr	F	24.5	83.0	81.0	13,700	10,950	SD98–76–1.
Barker Res	TX Harris Ft Bend	Buffalo Bayou	M	79.6	439.0	421.0	6,040	3,570	PL 86–399.
Beaver Lk	AR Carroll, Benton, Washington.	White R	F	42.8	421.0	372.6	3,570	0	
			F	209.0	106.0	73.2	16,734	0	HD250–83–2, RHA 1938.
			F	299.6	1,130.0	1,120.0	31,700	28,220	PL 83–780.
Belton Lk	TX Bell	Leon R	FPM	925.1	1,120.0	1,077.0	28,220	15,540	PL 85–500.
Benbrook Lk	TX Tarrant, Parker	Clear Fk Trinity R	F	640.0	631.0	594.0	23,600	12,400	PL 79–526.
Big Hill Lk	KN Labette	Big Hill Cr	MI	372.7	594.0	470.0	12,400	42	HD88–81–1.
			F	170.4	724.0	694.0	7,630	3,770	HD103–771.
Birch Lk	OK Osage	Birch Cr	NM	72.5	694.0	656.0	3,770	730	
			F	27.2	867.5	858.0	1,520	1,240	PL 87–874.
Blue Mountain Lk	AR Yell, Logan	Pettit Jean R	FMR	39.0	774.0	750.5	1,240	70	HD572–87–2.
Broken Bow Lk	OK McCurtain	Mountain Fk R	F	233.3	419.0	384.0	11,000	2,910	PL 87–874.
Bull Shoals Lk	AR Baxter, Marion, Boone.	White R	F	450.2	627.5	599.5	18,000	14,200	HD563–87–2.
			FRPMAC	489.8	599.5	559.5	14,200	9,200	PA 75–761.
			F	2,360.0	695.0	654.0	71,240	45,440	PL 85–500.
			F						PL 77–228.
Canton Lk	MO Ozark, Taney	N Canadian R	PF	1,003.0	654.0	628.5	45,440	33,800	
	OK Blain		F	265.8	1,638.0	1,615.4	15,710	7,910	PL 75–761.
Canyon Lk	TX Comal	Guadalupe R	FMI	97.2	1,615.4	1,596.5	7,910	2,710	HD56–75–3.
			F	346.4	934.0	909.0	12,890	8,240	PL 79–14.
Clearwater Lk	MO Reynolds, Wayne	Black R	M	366.4	909.0	75.0	8,240	0	
Cochiti Lk	NM Sandoval, Santa Fe, Los Alamos.	Rio Grande	F	391.8	567.0	494.0	10,400	1,630	PL 75–761.
			F	545.0	5,460.5	5,356.6	9,361	1,200	PL 86–645.
Conchas Lk	NM San Miguel	Candian R	FRC	43.0	5,356.6	5,330.0	1,200	0	
			F	196.8	4,218.0	4,201.0	13,664	9,692	HD 308–74.
Copan Lk	OK Washington	L Caney R	FI	259.6	4,201.0	4,155.0	9,692	3,000	
	KS Chautauqua	Neosho R	FMCA	184.3	732.0	710.0	13,360	4,850	PL 87–874.
Council Grove Lk	KS Morris	Rolling Fork R	F	42.8	710.0	687.5	4,850	110	HD563–87–2.
			F	63.8	1,289.0	1,274.0	5,400	3,230	PL 81–516.
DeQueen Lk	AR Sevier	Saline R	FMAR	48.5	1,274.0	1,240.0	3,230	42	
			F	101.3	473.5	437.0	4,050	1,680	PL 85–500.
Dierks Lk	AR Sevier, Howard	Walnut R	FMCRQ	25.5	437.0	415.0	1,680	710	
			F	67.1	557.5	528.0	2,970	1,360	PL 85–500.
Eldorado Lk	KS Butler	Elk R	FMCR	79.2	1,347.5	1,339.0	10,740	8,000	PL 89–298.
			F	154.0	1,339.0	1,296.0	4,450	420	HD232–89–1.
Elk City Lk	KS Montgomery		FMAR	239.5	825.0	796.0	13,150	8,000	HD440–76–1.
			F						

Eufaula Lk	OK McIntosh, Pittsburg, Haskell.	Candian R	FMA F	44.8 1,510.9	796.0 597.0	764.0 585.0	4,450 147,960	64 105,480	PL 79-525.
Fall River Lk	KS Greenwood	Fall R	FNPM F	1,463.0 234.5	585.0 987.5	565.0 948.5	105,480 10,400	46,120 2,350	HD440-76-1.
Fort Gibson Lk	OK Wagoner	Neosho (Grand) R	FA F	15.0 919.2	948.5 582.0	940.0 554.0	2,350 51,000	1,170 19,900	FEC 1941.
Fort Supply Lk	OK Woodward	Wolf Cr	FP F	53.9 86.8	554.0 2,028.0	551.0 2,004.0	19,100 5,690	16,950 1,820	RHA 1946. PL 74-738.
Galisteo Dam	NM Santa Fe	Galisteo Cr	FM F	13.9 79.4	2,004.0 5,608.0	1,988.0 5,496.0	1,820 2,060	0 1,310	PL 86-645. PL 87-874.
Georgetown Lk	TX Williamson	N.F. San Gabriel R	MC F	29.2 188.7	791.0 569.0	699.0 502.0	1,310 4,680	0 1,370	HD 591-82-2. PL 85-500.
Gilham Lk	AR Howard, Polk	Cossatot R	F F	29.3 162.2	502.0 528.0	464.5 504.0	1,370 11,040	310 4,400	PL 87-874.
Granger Lk	TX Williamson	San Gabriel R	F F	37.9 243.1	504.0 560.0	440.0 535.0	4,400 12,710	0 7,280	HD103-77-1.
Grapevine Lk	TX Denton, Tarrant	Denton Cr	M F	154.3 240.0	535.0 1,138.5	451.0 1,125.0	7,380 27,730	41 8,693	PL 74-738.
Great Salt Plains Lk	OK Alfalfa	Salt Fk	FC F	31.4 934.0	1,125.0 487.0	1,115.0 461.0	8,690 40,480	0 31,460	PL 75-761.
Greers Ferry Lk	AR Cleburne, Van Buren	Little Red R	FP F	716.5 48.4	461.0 784.0	435.0 761.5	31,460 3,700	23,740 917	PL 83-780. PL 79-526.
Heyburn Lk	OK Creek	Polecat Cr	FM F	3.8 16.7	761.5 1,920.0	55.5 1,900.0	917 1,260	394 510	PL 77-228.
Hords Cr Lk	TX Coleman	Hords Cr	F M	5.8 809.1	1,900.0 437.5	1,848.0 404.5	510 34,490	0 13,250	PL 79-526.
Hugo Lk	OK Choctaw	Kiamichi R	F F	127.2 257.9	404.5 765.0	390.0 733.0	13,250 13,000	4,500 3,570	PL 74-738.
Hulah Lk	OK Osage	Caney R	FMAR F	31.1 73.0	733.0 5,232.0	710.0 5,196.1	3,570 2,877	0 1,370	PL 84-843. PL 80-858. PL 81-516.
Jemez Canyon Dam	NM Sandoval	Jemez R	F	1,238.0 176.9	536.0 522.0	522.0 456.0	10,940 7,470	7,470 10	PL 89-298.
Joe Pool Lk	TX Dalla, Ellis, Tarrant ..	Mountain Cr	F M	270.3 350.9	3,870.0 3,851.0	3,851.0 0.0	17,630 11,655	11,655 0	PL 74-738.
John Martin Res	CO Bent	Arkansas R	FRC F	559.0 70.8	1,068.0 1,039.0	1,039.0 1,020.0	31,700 9,300	9,300 108	PL 81-516.
John Redmond Dam & Res	KS Coffee	Neosho R	F F	919.4 343.5	1,044.5 1,010.0	1,010.0 978.0	38,020 17,040	17,040 23,600	PL 87-874.
Kaw Lk	OK Kay, Osage	Arkansas R	FMAR F	1,180.0 296.7	754.0 723.0	723.0 706.0	54,300 23,600	5,590 13,300	PL 81-516.
Keystone Lk	OK Tulsa	Arkansas R	FNPMC N	0.0 18.7	142.0 162.3	142.0 160.5	140 10,700	140 9,400	HD 758-79, RHA 1946. HD 758-79, RHA 1946.
L&D 01, Norrell	AR Arkansas	Arkansas Post Canal	N N	8.3 12.9	182.3 196.3	180.0 194.0	3,750 5,820	3,180 5,200	HD 758-79, RHA 1946. HD 758-79, RHA 1946.
L&D 02, Wilbur D. Mills Dam	AR Desha, Arkansas	Arkansas R	N N	14.4 9.6	213.3 231.3	211.0 229.0	6,900 4,830	5,550 4,130	HD 758-79, RHA 1946. HD 758-79, RHA 1946.
L&D 03	AR Jefferson, Lincoln ..	Arkansas R	N N	24.7 24.7	247.0 247.0	247.0 247.0	10,350 247.0	8,100 247.0	HD 758-79, RHA 1946. RHA 1946.
L&D 04	AR Jefferson	Arkansas R	N N						
L&D 05	AR Jefferson	Arkansas R	N N						
L&D 06, David D. Terry	AR Pulaski	Arkansas R	N N						
L&D 07, Murray	AR Pulaski	Arkansas R	N N						

APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
L&D 08, Toad Suck Ferry	AR Faulkner, Perry	Arkansas R	N	8.7	265.3	263.0	4,130	3,600	RHA 1946.
L&D 09, Arthur V. Ormond L&D, W. Rockefeller Lk.	AR Conway	Arkansas R	N	15.8	287.0	284.0	5,660	4,910	HD 758–79.
L&D 10, Lk Dardanelle	AR Pope Yell	Arkansas R	NP	72.3	338.2	336.0	34,700	31,140	HD 758–79, RHA 1946.
L&D 11, Ozark-Jetta Taylor	AR Franklin	Arkansas	NPR	25.3	372.5	370.0	11,100	8,800	RHA 1946, HD 758–79.
L&D 13, James W. Trimble	AR Sebastian, Crawford	Arkansas R	N	18.1	392.0	389.0	6,820	5,200	RHA 1946.
L&D 14, W. D. Mayo	OK Sequoyah, Leflore	Arkansas R	N	0.0	413.0	0.0	1,600	0	PL 79–525.
L&D 15, Robert S. Keir Res	OK Lefflore, Sequoyah	Arkansas R	NP	84.7	460.0	458.0	43,800	40,760	PL 79–525.
L&D 16, Webbers Falls Res	OK Muskogee	Arkansas R	NP	32.4	490.0	487.0	10,900	9,300	PL 79–525.
L&D 17, Chouteau	OK Wagoner	Verdigris R	N	0.0	511.0	511.0	2,270	2,270	PL 79–525, HD 758–79– 2.
L&D 18, Newt Graham	OK Wagoner	Verdigris R	N	0.0	532.0	532.0	1,490	1,490	PL 97–525.
Lake O' The Pines	TX Marion	Cypress Cr	F	579.5	249.5	228.5	38,200	18,700	PL 79–526.
Lavon Lk	TX Collin	East Fork, Trinity R	M	250.0	228.5	201.0	18,700	1,100	HD 533–78–2.
Lewisville Lk Garza-Little Elm Dam ...	TX Denton	Elm Fork Trinity R	M	380.0	492.0	433.0	29,450	21,400	HD 533–78–2.
Marion Lk	TX Denton	Elm Fork Trinity R	F	380.0	492.0	433.0	21,400	2,87	HD 403–77–1.
Millwood Lk	KS Marion	Cottonwood R	M	535.2	532.0	515.0	39,080	23,280	HD 403–77–1.
Navarro Mills Lk	AR Little R Hempstead ..	Little R	F	436.0	515.0	433.0	23,280	12	PL 81–516.
Nimrod Lk	TX Navarro Hill	Richland Cr	F	60.2	1,358.5	1,350.5	6,200	170	PL 79–526.
Norfolk Lk	AR Perry, Yell	Fourche La Fave R	F	83.3	1,350.5	1,320.0	6,200	170	HD 785–79.
North Fork Lk	AR Baxter, Fulton	North Fork R	F	1,650.0	287.0	259.2	95,200	29,200	HD 498–83–2.
O. C. Fisher Lk	MO Ozark	N.F. San Gabriel R	F	153.2	259.2	252.0	29,200	13,100	FCA 1938.
Oologah Lk	TX Williamson	Verdigris R	M	143.2	443.0	424.5	11,700	5,070	PL 75–761.
Optima Lk	TX Tom Green	N. Concho R	F	53.2	424.5	375.3	5,070	0	FCA 1941.
Pat Mayse Lk	OK Rogers	Verdigris R	MC	307.0	373.0	342.0	18,300	3,550	PL 87–874.
Pine Cr	AR Baxter, Fulton	North Fork R	F	731.8	580.0	552.0	30,700	21,990	HD 591–82–2.
Proctor Lk	MO Ozark	N.F. San Gabriel R	F	707.0	552.0	510.0	21,990	12,320	PL 77–228.
Sam Rayburn Res	TX Jasper, San Augus- tine, Angelina.	Angelina R	F	29.2	791.0	699.0	3,220	1,310	PL 75–761.
			MC	277.2	1,938.5	1,908.0	12,700	5,440	PL 75–761.
			F	80.4	1,908.0	1,836.0	5,440	29,460	PL 74–738.
			F	965.6	661.0	638.0	56,800	29,460	PL 87–874.
			F	544.1	638.0	592.0	29,460	1,120	HD 88–71.
			F	100.5	2,779.0	2,763.5	7,640	1,335	PL 85–500.
			F	117.7	2,763.5	2,726.0	5,340	996	HD 170–85–1.
			F	64.6	460.5	451.0	7,680	5,993	PL 83–780, HD 535–81– 2.
			F	119.9	451.0	415.0	5,993	700	HD 981–76–1.
			F	388.1	480.0	443.5	4,980	4,610	
			F	77.6	443.5	414.0	4,980	4,610	
			F	310.1	1,197.0	1,162.0	14,010	14,010	
			F	1,099.4	173.0	164.4	142,700	114,500	
			PMC	1,446.2	164.4	149.0	114,500	74,040	

Santa Rosa	NM Guadalupe	Pecos R	F	340.0	4,746.2	4,776.5	10,740	3,823	PL 83-780.
Sardis	OK Pushmatah	Jackfork Cr	FI	160.0	4,776.5	4,746.2	7,115	3,823	
Somerville Lk	TX Washington, Lee, Burleson.	Yegua Cr	FMR	122.6	607.0	599.0	16,960	13,610	HD 602-79-2.
			F	274.2	599.0	542.0	13,610	40	
			F	337.7	258.0	238.0	24,400	11,460	PL 83-780.
Stiatook	OK Osage	Hominy Cr	M	143.9	238.0	200.0	11,460	0	
Stillhouse H. Lk	TX Bell	Lampasas R	F	178.0	729.0	714.0	13,690	10,190	HD 563-87.
			F	311.6	714.0	657.0	10,190	1,430	
Table Rock Lk	MO Taney, Stone, Barry	White R	M	390.6	666.0	622.0	11,830	6,430	PL 83-780.
	AR Carroll, Boone		F	204.9	622.0	498.0	6,430	0	
Tenkiller Ferry Lk	OK Cherokee, Sequoyah	Illinois R	FP	760.0	931.0	915.0	52,250	43,070	PL 77-228.
			F	1,181.50	915.0	881.0	43,070	27,300	FCA 1938.
Texoma Lk, Denison Dam	TX Marshall	Red R	FP	576.7	667.0	632.0	20,800	12,900	RHA 1946.
	OK Bryan, Cook, Grayson.		F	371.0	632.0	594.5	12,900	7,370	
			FPM	2,669.0	640.0	617.0	144,000	88,000	PL 75-761.
				1,612.0	617.0	590.0	88,000	41,000	
Toronto Lk	KS Woodson	Verdigris R	F	179.8	931.0	901.5	11,740	2,660	HD 440-76-1.
			FMA	10.7	901.5	896.7	2,660	1,720	
Trinidad Lk	CO Las Animas	Purgatoire R	F	58.0	6,260.0	6,230.0	2,107	1,453	PL 85-500.
			FI	20.0	6,230.0	0.0	1,453	0	
Two Rivers Dam	NM Chaves	Rio Hondo R	F	150.0	4,032.0	3,945.0	4,806	0	PL 83-780.
Waco Lk	TX Mclellan	Bosque R	F	3.3	500.0	455.0	19,440	7,270	PL 83-780.
			F	100.8	455.0	370.0	7,240	0	HD 535-81-2.
Waurika Lk	OK Jefferson	Beaver Cr	F	140.4	962.5	951.4	15,000	10,100	PL 88-253.
			F	199.7	951.4	910.0	10,100	830	
Whitney Lk	TX Hill, Bosquel	Brazos R	F	1,372.0	571.0	533.0	49,820	23,560	PL 77-228.
			PM	381.9	533.0	425.0	23,560	475	HD 390-76-1.
Wister Lk	OK Leflore	Pouteau R	F	387.0	502.5	474.6	23,070	5,000	PL 75-761.
Wright Patman Lk	TX Bowie, Cass	Sulphur R	F	2,363.7	259.5	220.0	119,700	20,300	PL 79-526.
			FM	142.7	220.0	180.0	20,300	0	

¹ Res.—Reservoir; Lk.—Lake; Div.—Diversion; R.—River; Cr.—Creek; Fk.—Fork; L&D—Lock & Dam; GIWW—Gulf Intercoastal Waterway; FG—Floodgate; CS—Control Structure; DS—Drainage Structure; PS—Pump Station.

² F—Flood Control; N—Navigation; P—Hydropower; I—Irrigation; M—Municipal and/or Industrial Water/Supply; C—Fish and Wildlife Conservation; R—Recreation; A—Low Flow Augmentation or Pollution Abatement; Q—Quality or Silt Control.

³ PL—Public Law; HD—House Document; RHA—River & Harbor Act; PW—Public Works; FCA—Flood Control Act; WSA—Water Supply Act.

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